

Siemens 0022 Seq Listing.txt

<110> Wirtz, et al.

<120> METHODS AND COMPOSITIONS FOR THE PREDICTION, DIAGNOSIS, PROGNOSIS, PREVENTION AND TREATMENT OF MALIGNANT NEOPLASIA

<130> 2007674-0022

<140> 10/576,900

<160> 512

<170> PatentIn version 3.1

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2355

<212> DNA

<213> Homo sapiens

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<211> 4119

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2653

<212> DNA

<213> Homo sapiens

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<211> 2907

<212> DNA

Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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atta	agat	cc	g	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	4740
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<211> 1871

<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 25

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atgtctgctt	ccagtgttgg	aagtgtttat	gggggaagtg	ccttggctt	tggagccagc	180
tgtgggggag	gctttctgc	tgcttccatg	tttggttcta	gttccggctt	tgggggtggc	240
tccggaaagtt	ccatggcagg	aggactgggt	gctggttatg	ggagagccct	gggtggaggt	300
agctttggag	ggctgggat	gggatttggg	ggcagcccag	gaggtggctc	tcttaggtatt	360
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aatgatagat	tagcttccta	cctggataag	gtgcgagctc	tagaagaggc	taatactgag	480
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cagagcgatt	acagcaaata	ttatccactg	attgaagacc	tcagaataa	gatcatttca	600
gccagcattg	gaaatgccc	gctcccttgc	cagattgaca	atgcgagact	agctgctgag	660
gacttcagga	tgaagtatga	aatgaactg	gccctgcgcc	agggcgtaga	ggccgacatc	720
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<211> 1447

<212> DNA

<213> Homo sapiens

<400> 26

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gctggagaac	ctcatccgg	agcggtctca	gcagcaggag	ccctgtctgt	gccccagcta	180
ccagtcctac	ttaaagacca	ttgaggagct	ccagcagaag	atccctgtca	gcaagtctga	240
gaatgcagg	ctgggtgtgc	agatcgacaa	tgccaaagctg	gctgcagatg	acttcagaac	300
caagtaccag	acggagcagt	ccctgcggca	gctgggtggag	tccgacatca	acagcctgcg	360
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Siemens 0022 Seq Listing.txt

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ccagttctgc ctctctgaca	accatcagcc accggacccc	accccgaggc atcaccacaa	1200
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gttggagctg tgacagtggc	atacgaggtg	atggtcagag	1380
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<210> 27

<211> 261

<212> PRT

<213> Homo sapiens

<400> 27

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Glu Thr Cys Lys Met Thr Leu Asn Met Lys Asn Tyr Lys Gly Tyr Glu			
35 40 45			
Lys Lys Pro Tyr Cys Asn Ala His Tyr Pro Lys Gln Ser Phe Thr Met			
50 55 60			
Val Ala Asp Thr Pro Glu Asn Leu Arg Leu Lys Gln Gln Ser Glu Leu			
65 70 75 80			
Gln Ser Gln Val Arg Tyr Lys Glu Glu Phe Glu Lys Asn Lys Gly Lys			
85 90 95			
Gly Phe Ser Val Val Ala Asp Thr Pro Glu Leu Gln Arg Ile Lys Lys			
100 105 110			
Thr Gln Asp Gln Ile Ser Asn Ile Lys Tyr His Glu Glu Phe Glu Lys			
115 120 125			
Ser Arg Met Gly Pro Ser Gly Gly Glu Met Glu Pro Glu Arg Arg			
130 135 140			
Asp Ser Gln Asp Gly Ser Ser Tyr Arg Arg Pro Leu Glu Gln Gln Gln			
145 150 155 160			
Pro His His Ile Pro Thr Ser Ala Pro Val Tyr Gln Gln Pro Gln Gln			
165 170 175			
Gln Pro Val Ala Gln Ser Tyr Gly Gly Tyr Lys Glu Pro Ala Ala Pro			
180 185 190			
Val Ser Ile Gln Arg Ser Ala Pro Gly Gly Gly Lys Arg Tyr Arg			
195 200 205			
Ala Val Tyr Asp Tyr Ser Ala Ala Asp Glu Asp Glu Val Ser Phe Gln			
210 215 220			
Asp Gly Asp Thr Ile Val Asn Val Gln Gln Ile Asp Asp Gly Trp Met			
225 230 235 240			
Tyr Gly Thr Val Glu Arg Thr Gly Asp Thr Gly Met Leu Pro Ala Asn			
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Tyr Val Glu Ala Ile			
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<210> 28

<211> 478

<212> PRT

<213> Homo sapiens

<400> 28

Met Val Gln Lys Thr Ser Met Ser Arg Gly Pro Tyr Pro Pro Ser Gln			
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Siemens 0022 Seq Listing.txt

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 Lys Arg Lys Gly Arg Phe Lys Arg Ser Asp Gly Ser Thr Ser Ser Asp  
                     35                 40                 45  
 Thr Thr Ser Asn Ser Phe Val Arg Gln Gly Ser Ala Glu Ser Tyr Thr  
                     50                 55                 60  
 Ser Arg Pro Ser Asp Ser Asp Val Ser Leu Glu Glu Asp Arg Glu Ala  
                     65                 70                 75                 80  
 Leu Arg Lys Glu Ala Glu Arg Gln Ala Leu Ala Gln Leu Glu Lys Ala  
                     85                 90                 95  
 Lys Thr Lys Pro Val Ala Phe Ala Val Arg Thr Asn Val Gly Tyr Asn  
                     100                 105                 110  
 Pro Ser Pro Gly Asp Glu Val Pro Val Gln Gly Val Ala Ile Thr Phe  
                     115                 120                 125  
 Glu Pro Lys Asp Phe Leu His Ile Lys Glu Lys Tyr Asn Asn Asp Trp  
                     130                 135                 140  
 Trp Ile Gly Arg Leu Val Lys Glu Gly Cys Glu Val Gly Phe Ile Pro  
                     145                 150                 155                 160  
 Ser Pro Val Lys Leu Asp Ser Leu Arg Leu Leu Gln Glu Gln Lys Leu  
                     165                 170                 175  
 Arg Gln Asn Arg Leu Gly Ser Ser Lys Ser Gly Asp Asn Ser Ser Ser  
                     180                 185                 190  
 Ser Leu Gly Asp Val Val Thr Gly Thr Arg Arg Pro Thr Pro Pro Ala  
                     195                 200                 205  
 Ser Ala Lys Gln Lys Gln Lys Ser Thr Glu His Val Pro Pro Tyr Asp  
                     210                 215                 220  
 Val Val Pro Ser Met Arg Pro Ile Ile Leu Val Gly Pro Ser Leu Lys  
                     225                 230                 235                 240  
 Gly Tyr Glu Val Thr Asp Met Met Gln Lys Ala Leu Phe Asp Phe Leu  
                     245                 250                 255  
 Lys His Arg Phe Asp Gly Arg Ile Ser Ile Thr Arg Val Thr Ala Asp  
                     260                 265                 270  
 Ile Ser Leu Ala Lys Arg Ser Val Leu Asn Asn Pro Ser Lys His Ile  
                     275                 280                 285  
 Ile Ile Glu Arg Ser Asn Thr Arg Ser Ser Leu Ala Glu Val Gln Ser  
                     290                 295                 300  
 Glu Ile Glu Arg Ile Phe Glu Leu Ala Arg Thr Leu Gln Leu Val Ala  
                     305                 310                 315                 320  
 Leu Asp Ala Asp Thr Ile Asn His Pro Ala Gln Leu Ser Lys Thr Ser  
                     325                 330                 335  
 Leu Ala Pro Ile Ile Val Tyr Ile Lys Ile Thr Ser Pro Lys Val Leu  
                     340                 345                 350  
 Gln Arg Leu Ile Lys Ser Arg Gly Lys Ser Gln Ser Lys His Leu Asn  
                     355                 360                 365  
 Val Gln Ile Ala Ala Ser Glu Lys Leu Ala Gln Cys Pro Pro Glu Met  
                     370                 375                 380  
 Phe Asp Ile Ile Leu Asp Glu Asn Gln Leu Glu Asp Ala Cys Glu His  
                     385                 390                 395                 400  
 Leu Ala Glu Tyr Leu Glu Ala Tyr Trp Lys Ala Thr His Pro Pro Ser  
                     405                 410                 415  
 Ser Thr Pro Pro Asn Pro Leu Leu Asn Arg Thr Met Ala Thr Ala Ala  
                     420                 425                 430  
 Leu Arg Arg Ser Pro Ala Pro Val Ser Asn Leu Gln Val Gln Val Leu  
                     435                 440                 445  
 Thr Ser Leu Arg Arg Asn Leu Gly Phe Trp Gly Gly Leu Glu Ser Ser  
                     450                 455                 460  
 Gln Arg Gly Ser Val Val Pro Gln Glu Gln Glu His Ala Met  
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<210> 29

<211> 196

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 29

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Ala Asn Ala Asn Ser Arg Gln Gln Ile Arg Lys Leu Ile Lys Asp Gly  
35 40 45  
Leu Ile Ile Arg Lys Pro Val Thr Val His Ser Arg Ala Arg Cys Arg  
50 55 60  
Lys Asn Thr Leu Ala Arg Arg Lys Gly Arg His Met Gly Ile Gly Lys  
65 70 75 80  
Arg Lys Gly Thr Ala Asn Ala Arg Met Pro Glu Lys Val Thr Trp Met  
85 90 95  
Arg Arg Met Arg Ile Leu Arg Arg Leu Leu Arg Arg Tyr Arg Glu Ser  
100 105 110  
Lys Lys Ile Asp Arg His Met Tyr His Ser Leu Tyr Leu Lys Val Lys  
115 120 125  
Gly Asn Val Phe Lys Asn Lys Arg Ile Leu Met Glu His Ile His Lys  
130 135 140  
Leu Lys Ala Asp Lys Ala Arg Lys Lys Leu Leu Ala Asp Gln Ala Glu  
145 150 155 160  
Ala Arg Arg Ser Lys Thr Lys Glu Ala Arg Lys Arg Arg Glu Glu Arg  
165 170 175  
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180 185 190  
Glu Thr Lys Lys  
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<210> 30

<211> 1566

<212> PRT

<213> Homo sapiens

<400> 30

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Val Val Met Ser Ser Gly Gly His Gln His Leu Val Ser Cys Leu Glu  
35 40 45  
Thr Leu Gln Lys Ala Leu Lys Val Thr Ser Leu Pro Ala Met Thr Asp  
50 55 60  
Arg Leu Glu Ser Ile Ala Gly Gln Asn Gly Leu Gly Ser His Leu Ser  
65 70 75 80  
Ala Ser Gly Thr Glu Cys Tyr Ile Thr Ser Asp Met Phe Tyr Val Glu  
85 90 95  
Val Gln Leu Asp Pro Ala Gly Gln Leu Cys Asp Val Lys Val Ala His  
100 105 110  
His Gly Glu Asn Pro Val Ser Cys Pro Glu Leu Val Gln Gln Leu Arg  
115 120 125  
Glu Lys Asn Ser Asp Glu Phe Ser Lys His Leu Lys Gly Leu Val Asn  
130 135 140  
Leu Tyr Asn Leu Pro Gly Asp Asn Lys Leu Lys Thr Lys Met Tyr Leu  
145 150 155 160  
Ala Leu Gln Ser Leu Glu Gln Asp Leu Ser Lys Met Ala Ile Met Tyr  
165 170 175  
Trp Lys Ala Thr Asn Ala Gly Pro Leu Asp Lys Ile Leu His Gly Ser  
180 185 190

## Siemens 0022 Seq Listing.txt

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 195 200 205  
 Tyr Tyr Val Ser Pro Ser Asp Leu Leu Asp Asp Lys Thr Ala Ser Pro  
 210 215 220  
 Ile Ile Leu His Glu Asn Asn val Ser Arg Ser Leu Gly Met Asn Ala  
 225 230 235 240  
 Ser Val Thr Ile Glu Gly Thr Ser Ala Val Tyr Lys Leu Pro Ile Ala  
 245 250 255  
 Pro Leu Ile Met Gly Ser His Pro Val Asp Asn Lys Trp Thr Pro Ser  
 260 265 270  
 Phe Ser Ser Ile Thr Ser Ala Asn Ser Val Asp Leu Pro Ala Cys Phe  
 275 280 285  
 Phe Leu Lys Phe Pro Gln Pro Ile Pro Val Ser Arg Ala Phe Val Gln  
 290 295 300  
 Lys Leu Gln Asn Cys Thr Gly Ile Pro Leu Phe Glu Thr Gln Pro Thr  
 305 310 315 320  
 Tyr Ala Pro Leu Tyr Glu Leu Ile Thr Gln Phe Glu Leu Ser Lys Asp  
 325 330 335  
 Pro Asp Pro Ile Pro Leu Asn His Asn Met Arg Phe Tyr Ala Ala Leu  
 340 345 350  
 Pro Gly Gln Gln His Cys Tyr Phe Leu Asn Lys Asp Ala Pro Leu Pro  
 355 360 365  
 Asp Gly Arg Ser Leu Gln Gly Thr Leu Val Ser Lys Ile Thr Phe Gln  
 370 375 380  
 His Pro Gly Arg Val Pro Leu Ile Leu Asn Leu Ile Arg His Gln Val  
 385 390 395 400  
 Ala Tyr Asn Thr Leu Ile Gly Ser Cys Val Lys Arg Thr Ile Leu Lys  
 405 410 415  
 Glu Asp Ser Pro Gly Leu Leu Gln Phe Glu Val Cys Pro Leu Ser Glu  
 420 425 430  
 Ser Arg Phe Ser Val Ser Phe Gln His Pro Val Asn Asp Ser Leu Val  
 435 440 445  
 Cys Val Val Met Asp Val Gln Gly Leu Thr His Val Ser Cys Lys Leu  
 450 455 460  
 Tyr Lys Gly Leu Ser Asp Ala Leu Ile Cys Thr Asp Asp Phe Ile Ala  
 465 470 475 480  
 Lys Val Val Gln Arg Cys Met Ser Ile Pro Val Thr Met Arg Ala Ile  
 485 490 495  
 Arg Arg Lys Ala Glu Thr Ile Gln Ala Asp Thr Pro Ala Leu Ser Leu  
 500 505 510  
 Ile Ala Glu Thr Val Glu Asp Met Val Lys Lys Asn Leu Pro Pro Ala  
 515 520 525  
 Ser Ser Pro Gly Tyr Gly Met Thr Thr Gly Asn Asn Pro Met Ser Gly  
 530 535 540  
 Thr Thr Thr Ser Thr Asn Thr Phe Pro Gly Gly Pro Ile Ala Thr Leu  
 545 550 555 560  
 Phe Asn Met Ser Met Ser Ile Lys Asp Arg His Glu Ser Val Gly His  
 565 570 575  
 Gly Glu Asp Phe Ser Lys Val Ser Gln Asn Pro Ile Leu Thr Ser Leu  
 580 585 590  
 Leu Gln Ile Thr Gly Asn Gly Ser Thr Ile Gly Ser Ser Pro Thr  
 595 600 605  
 Pro Pro His His Thr Pro Pro Val Ser Ser Met Ala Gly Asn Thr  
 610 615 620  
 Lys Asn His Pro Met Leu Met Asn Leu Leu Lys Asp Asn Pro Ala Gln  
 625 630 635 640  
 Asp Phe Ser Thr Leu Tyr Gly Ser Ser Pro Leu Glu Arg Gln Asn Ser  
 645 650 655  
 Ser Ser Gly Ser Pro Arg Met Glu Ile Cys Ser Gly Ser Asn Lys Thr  
 660 665 670  
 Lys Lys Lys Ser Ser Arg Leu Pro Pro Glu Lys Pro Lys His Gln  
 675 680 685  
 Thr Glu Asp Asp Phe Gln Arg Glu Leu Phe Ser Met Asp Val Asp Ser

## Siemens 0022 Seq Listing.txt

690                    695                    700  
 Gln Asn Pro Ile Phe Asp Val Asn Met Thr Ala Asp Thr Leu Asp Thr  
 705                    710                    715                    720  
 Pro His Ile Thr Pro Ala Pro Ser Gln Cys Ser Thr Pro Pro Thr Thr  
 725                    730                    735  
 Tyr Pro Gln Pro Val Pro His Pro Gln Pro Ser Ile Gln Arg Met Val  
 740                    745                    750  
 Arg Leu Ser Ser Ser Asp Ser Ile Gly Pro Asp Val Thr Asp Ile Leu  
 755                    760                    765  
 Ser Asp Ile Ala Glu Glu Ala Ser Lys Leu Pro Ser Thr Ser Asp Asp  
 770                    775                    780  
 Cys Pro Ala Ile Gly Thr Pro Leu Arg Asp Ser Ser Ser Ser Gly His  
 785                    790                    795                    800  
 Ser Gln Ser Thr Leu Phe Asp Ser Asp Val Phe Gln Thr Asn Asn Asn  
 805                    810                    815  
 Glu Asn Pro Tyr Thr Asp Pro Ala Asp Leu Ile Ala Asp Ala Ala Gly  
 820                    825                    830  
 Ser Pro Ser Ser Asp Ser Pro Thr Asn His Phe Phe His Asp Gly Val  
 835                    840                    845  
 Asp Phe Asn Pro Asp Leu Leu Asn Ser Gln Ser Gly Phe Gly  
 850                    855                    860  
 Glu Glu Tyr Phe Asp Glu Ser Ser Gln Ser Gly Asp Asn Asp Asp Phe  
 865                    870                    875                    880  
 Lys Gly Phe Ala Ser Gln Ala Leu Asn Thr Leu Gly Val Pro Met Leu  
 885                    890                    895  
 Gly Gly Asp Asn Gly Glu Thr Lys Phe Lys Gly Asn Asn Gln Ala Asp  
 900                    905                    910  
 Thr Val Asp Phe Ser Ile Ile Ser Val Ala Gly Lys Ala Leu Ala Pro  
 915                    920                    925  
 Ala Asp Leu Met Glu His His Ser Gly Ser Gln Gly Pro Leu Leu Thr  
 930                    935                    940  
 Thr Gly Asp Leu Gly Lys Glu Lys Thr Gln Lys Arg Val Lys Glu Gly  
 945                    950                    955                    960  
 Asn Gly Thr Ser Asn Ser Thr Leu Ser Gly Pro Gly Leu Asp Ser Lys  
 965                    970                    975  
 Pro Gly Lys Arg Ser Arg Thr Pro Ser Asn Asp Gly Lys Ser Lys Asp  
 980                    985                    990  
 Lys Pro Pro Lys Arg Lys Lys Ala Asp Thr Glu Gly Lys Ser Pro Ser  
 995                    1000                    1005  
 His Ser Ser Ser Asn Arg Pro Phe Thr Pro Pro Thr Ser Thr Gly  
 1010                    1015                    1020  
 Gly Ser Lys Ser Pro Gly Ser Ala Gly Arg Ser Gln Thr Pro Pro  
 1025                    1030                    1035  
 Gly Val Ala Thr Pro Pro Ile Pro Lys Ile Thr Ile Gln Ile Pro  
 1040                    1045                    1050  
 Lys Gly Thr Val Met Val Gly Lys Pro Ser Ser His Ser Gln Tyr  
 1055                    1060                    1065  
 Thr Ser Ser Gly Ser Val Ser Ser Ser Gly Ser Lys Ser His His  
 1070                    1075                    1080  
 Ser His Ser Ser Ser Ser Ser Ser Ala Ser Thr Ser Gly Lys  
 1085                    1090                    1095  
 Met Lys Ser Ser Lys Ser Glu Gly Ser Ser Ser Ser Lys Leu Ser  
 1100                    1105                    1110  
 Ser Ser Met Tyr Ser Ser Gln Gly Ser Ser Gly Ser Ser Gln Ser  
 1115                    1120                    1125  
 Lys Asn Ser Ser Gln Ser Gly Gly Lys Pro Gly Ser Ser Pro Ile  
 1130                    1135                    1140  
 Thr Lys His Gly Leu Ser Ser Gly Ser Ser Ser Thr Lys Met Lys  
 1145                    1150                    1155  
 Pro Gln Gly Lys Pro Ser Ser Leu Met Asn Pro Ser Leu Ser Lys  
 1160                    1165                    1170  
 Pro Asn Ile Ser Pro Ser His Ser Arg Pro Pro Gly Gly Ser Asp  
 1175                    1180                    1185

Siemens 0022 Seq Listing.txt

Lys	Leu	Ala	Ser	Pro	Met	Lys	Pro	Val	Pro	Gly	Thr	Pro	Pro	Ser
1190						1195					1200			
Ser	Lys	Ala	Lys	Ser	Pro	Ile	Ser	Ser	Gly	Ser	Gly	Gly	Ser	His
1205						1210					1215			
Met	Ser	Gly	Thr	Ser	Ser	Ser	Ser	Gly	Met	Lys	Ser	Ser	Ser	Gly
1220						1225					1230			
Leu	Gly	Ser	Ser	Gly	Ser	Leu	Ser	Gln	Lys	Thr	Pro	Pro	Ser	Ser
1235						1240					1245			
Asn	Ser	Cys	Thr	Ala	Ser	Ser	Ser	Ser	Phe	Ser	Ser	Ser	Gly	Ser
1250						1255					1260			
Ser	Met	Ser	Ser	Ser	Gln	Asn	Gln	His	Gly	Ser	Ser	Lys	Gly	Lys
1265						1270					1275			
Ser	Pro	Ser	Arg	Asn	Lys	Lys	Pro	Ser	Leu	Thr	Ala	Val	Ile	Asp
1280						1285					1290			
Lys	Leu	Lys	His	Gly	Val	Val	Thr	Ser	Gly	Pro	Gly	Gly	Glu	Asp
1295						1300					1305			
Pro	Leu	Asp	Gly	Gln	Met	Gly	Val	Ser	Thr	Asn	Ser	Ser	Ser	His
1310						1315					1320			
Pro	Met	Ser	Ser	Lys	His	Asn	Met	Ser	Gly	Gly	Glu	Phe	Gln	Gly
1325						1330					1335			
Lys	Arg	Glu	Lys	Ser	Asp	Lys	Asp	Lys	Ser	Lys	Val	Ser	Thr	Ser
1340						1345					1350			
Gly	Ser	Ser	Val	Asp	Ser	Ser	Lys	Lys	Thr	Ser	Glu	Ser	Lys	Asn
1355						1360					1365			
Val	Gly	Ser	Thr	Gly	Val	Ala	Lys	Ile	Ile	Ile	Ser	Lys	His	Asp
1370						1375					1380			
Gly	Gly	Ser	Pro	Ser	Ile	Lys	Ala	Lys	Val	Thr	Leu	Gln	Lys	Pro
1385						1390					1395			
Gly	Glu	Ser	Ser	Gly	Glu	Gly	Leu	Arg	Pro	Gln	Met	Ala	Ser	Ser
1400						1405					1410			
Lys	Asn	Tyr	Gly	Ser	Pro	Leu	Ile	Ser	Gly	Ser	Thr	Pro	Lys	His
1415						1420					1425			
Glu	Arg	Gly	Ser	Pro	Ser	His	Ser	Lys	Ser	Pro	Ala	Tyr	Thr	Pro
1430						1435					1440			
Gln	Asn	Leu	Asp	Ser	Glu	Ser	Glu	Ser	Gly	Ser	Ser	Ile	Ala	Glu
1445						1450					1455			
Lys	Ser	Tyr	Gln	Asn	Ser	Pro	Ser	Ser	Asp	Asp	Gly	Ile	Arg	Pro
1460						1465					1470			
Leu	Pro	Glu	Tyr	Ser	Thr	Glu	Lys	His	Lys	Lys	His	Lys	Lys	Glu
1475						1480					1485			
Lys	Lys	Lys	val	Lys	Asp	Lys	Asp	Arg	Asp	Arg	Asp	Arg	Asp	Lys
1490						1495					1500			
Asp	Arg	Asp	Lys	Lys	Lys	Ser	His	Ser	Ile	Lys	Pro	Glu	Ser	Trp
1505						1510					1515			
Ser	Lys	Ser	Pro	Ile	Ser	Ser	Asp	Gln	Ser	Leu	Ser	Met	Thr	Ser
1520						1525					1530			
Asn	Thr	Ile	Leu	Ser	Ala	Asp	Arg	Pro	Ser	Arg	Leu	Ser	Pro	Asp
1535						1540					1545			
Phe	Met	Ile	Gly	Glu	Glu	Asp	Asp	Asp	Leu	Met	Asp	Val	Ala	Leu
1550						1555					1560			

Ile Gly Asn  
1565

<210> 31

<211> 1490

<212> PRT

<213> Homo sapiens

<400> 31

Met Pro Asn Ser Glu Arg His Gly Gly Lys Lys Asp Gly Ser Gly Gly

1

5

10

15

Siemens 0022 Seq Listing.txt

Ala Ser Gly Thr Leu Gln Pro Ser Ser Gly Gly Gly Ser Ser Asn Ser  
     20                       25                       30  
 Arg Glu Arg His Arg Leu Val Ser Lys His Lys Arg His Lys Ser Lys  
     35                       40                       45  
 His Ser Lys Asp Met Gly Leu Val Thr Pro Glu Ala Ala Ser Leu Gly  
     50                       55                       60  
 Thr Val Ile Lys Pro Leu Val Glu Tyr Asp Asp Ile Ser Ser Asp Ser  
     65                       70                       75                       80  
 Asp Thr Phe Ser Asp Asp Met Ala Phe Lys Leu Asp Arg Arg Glu Asn  
     85                       90                       95  
 Asp Glu Arg Arg Gly Ser Asp Arg Ser Asp Arg Leu His Lys His Arg  
     100                       105                       110  
 His His Gln His Arg Arg Ser Arg Asp Leu Leu Lys Ala Lys Gln Thr  
     115                       120                       125  
 Glu Lys Glu Lys Ser Gln Glu Val Ser Ser Lys Ser Gly Ser Met Lys  
     130                       135                       140  
 Asp Arg Ile Ser Gly Ser Ser Lys Arg Ser Asn Glu Glu Thr Asp Asp  
     145                       150                       155                       160  
 Tyr Gly Lys Ala Gln Val Ala Lys Ser Ser Ser Lys Glu Ser Arg Ser  
     165                       170                       175  
 Ser Lys Leu His Lys Glu Lys Thr Arg Lys Glu Arg Glu Leu Lys Ser  
     180                       185                       190  
 Gly His Lys Asp Arg Ser Lys Ser His Arg Lys Arg Glu Thr Pro Lys  
     195                       200                       205  
 Ser Tyr Lys Thr Val Asp Ser Pro Lys Arg Arg Ser Arg Ser Pro His  
     210                       215                       220  
 Arg Lys Trp Ser Asp Ser Ser Lys Gln Asp Asp Ser Pro Ser Gly Ala  
     225                       230                       235                       240  
 Ser Tyr Gly Gln Asp Tyr Asp Leu Ser Pro Ser Arg Ser His Thr Ser  
     245                       250                       255  
 Ser Asn Tyr Asp Ser Tyr Lys Lys Ser Pro Gly Ser Thr Ser Arg Arg  
     260                       265                       270  
 Gln Ser Val Ser Pro Pro Tyr Lys Glu Pro Ser Ala Tyr Gln Ser Ser  
     275                       280                       285  
 Thr Arg Ser Pro Ser Pro Tyr Ser Arg Arg Gln Arg Ser Val Ser Pro  
     290                       295                       300  
 Tyr Ser Arg Arg Arg Ser Ser Ser Tyr Glu Arg Ser Gly Ser Tyr Ser  
     305                       310                       315                       320  
 Gly Arg Ser Pro Ser Pro Tyr Gly Arg Arg Arg Ser Ser Ser Pro Phe  
     325                       330                       335  
 Leu Ser Lys Arg Ser Leu Ser Arg Ser Pro Leu Pro Ser Arg Lys Ser  
     340                       345                       350  
 Met Lys Ser Arg Ser Arg Ser Pro Ala Tyr Ser Arg His Ser Ser Ser  
     355                       360                       365  
 His Ser Lys Lys Lys Arg Ser Ser Ser Arg Ser Arg His Ser Ser Ile  
     370                       375                       380  
 Ser Pro Val Arg Leu Pro Leu Asn Ser Ser Leu Gly Ala Glu Leu Ser  
     385                       390                       395                       400  
 Arg Lys Lys Lys Glu Arg Ala Ala Ala Ala Ala Ala Lys Met Asp  
     405                       410                       415  
 Gly Lys Glu Ser Lys Gly Ser Pro Val Phe Leu Pro Arg Lys Glu Asn  
     420                       425                       430  
 Ser Ser Val Glu Ala Lys Asp Ser Gly Leu Glu Ser Lys Lys Leu Pro  
     435                       440                       445  
 Arg Ser Val Lys Leu Glu Lys Ser Ala Pro Asp Thr Glu Leu Val Asn  
     450                       455                       460  
 Val Thr His Leu Asn Thr Glu Val Lys Asn Ser Ser Asp Thr Gly Lys  
     465                       470                       475                       480  
 Val Lys Leu Asp Glu Asn Ser Glu Lys His Leu Val Lys Asp Leu Lys  
     485                       490                       495  
 Ala Gln Gly Thr Arg Asp Ser Lys Pro Ile Ala Leu Lys Glu Glu Ile  
     500                       505                       510  
 Val Thr Pro Lys Glu Thr Glu Thr Ser Glu Lys Glu Thr Pro Pro Pro

## Siemens 0022 Seq Listing.txt

	515	520	525
Leu Pro Thr Ile Ala Ser Pro Pro Pro Pro Leu Pro Thr Thr Thr Pro	530	535	540
Pro Pro Gln Thr Pro Pro Leu Pro Pro Leu Pro Pro Ile Pro Ala Leu	545	550	555
Pro Gln Gln Pro Pro Leu Pro Pro Ser Gln Pro Ala Phe Ser Gln Val	565	570	575
Pro Ala Ser Ser Thr Ser Thr Leu Pro Pro Ser Thr His Ser Lys Thr	580	585	590
Ser Ala Val Ser Ser Gln Ala Asn Ser Gln Pro Pro Val Gln Val Ser	595	600	605
Val Lys Thr Gln Val Ser Val Thr Ala Ala Ile Pro His Leu Lys Thr	610	615	620
Ser Thr Leu Pro Pro Leu Pro Leu Pro Pro Leu Pro Gly Gly Asp	625	630	635
Asp Met Asp Ser Pro Lys Glu Thr Leu Pro Ser Lys Pro Val Lys Lys	645	650	655
Glu Lys Glu Gln Arg Thr Arg His Leu Leu Thr Asp Leu Pro Leu Pro	660	665	670
Pro Glu Leu Pro Gly Gly Asp Leu Ser Pro Pro Asp Ser Pro Glu Pro	675	680	685
Lys Ala Ile Thr Pro Pro Gln Gln Pro Tyr Lys Lys Arg Pro Lys Ile	690	695	700
Cys Cys Pro Arg Tyr Gly Glu Arg Arg Gln Thr Glu Ser Asp Trp Gly	705	710	715
Lys Arg Cys Val Asp Lys Phe Asp Ile Ile Gly Ile Ile Gly Glu Gly	725	730	735
Thr Tyr Gly Gln Val Tyr Lys Ala Arg Asp Lys Asp Thr Gly Glu Leu	740	745	750
Val Ala Leu Lys Lys Val Arg Leu Asp Asn Glu Lys Glu Gly Phe Pro	755	760	765
Ile Thr Ala Ile Arg Glu Ile Lys Ile Leu Arg Gln Leu Ile His Arg	770	775	780
Ser Val Val Asn Met Lys Glu Ile Val Thr Asp Lys Gln Asp Ala Leu	785	790	795
Asp Phe Lys Lys Asp Lys Gly Ala Phe Tyr Leu Val Phe Glu Tyr Met	805	810	815
Asp His Asp Leu Met Gly Leu Leu Glu Ser Gly Leu Val His Phe Ser	820	825	830
Glu Asp His Ile Lys Ser Phe Met Lys Gln Leu Met Glu Gly Leu Glu	835	840	845
Tyr Cys His Lys Lys Asn Phe Leu His Arg Asp Ile Lys Cys Ser Asn	850	855	860
Ile Leu Leu Asn Asn Ser Gly Gln Ile Lys Leu Ala Asp Phe Gly Leu	865	870	875
Ala Arg Leu Tyr Asn Ser Glu Glu Ser Arg Pro Tyr Thr Asn Lys Val	885	890	895
Ile Thr Leu Trp Tyr Arg Pro Pro Glu Leu Leu Leu Gly Glu Glu Arg	900	905	910
Tyr Thr Pro Ala Ile Asp Val Trp Ser Cys Gly Cys Ile Leu Gly Glu	915	920	925
Leu Phe Thr Lys Lys Pro Ile Phe Gln Ala Asn Leu Glu Leu Ala Gln	930	935	940
Leu Glu Leu Ile Ser Arg Leu Cys Gly Ser Pro Cys Pro Ala Val Trp	945	950	955
Pro Asp Val Ile Lys Leu Pro Tyr Phe Asn Thr Met Lys Pro Lys Lys	965	970	975
Gln Tyr Arg Arg Leu Arg Glu Glu Phe Ser Phe Ile Pro Ser Ala	980	985	990
Ala Leu Asp Leu Leu Asp His Met Leu Thr Leu Asp Pro Ser Lys Arg	995	1000	1005
Cys Thr Ala Glu Gln Thr Leu Gln Ser Asp Phe Leu Lys Asp Val	1010	1015	1020

Siemens 0022 Seq Listing.txt

Glu	Leu	Ser	Lys	Met	Ala	Pro	Pro	Asp	Leu	Pro	His	Trp	Gln	Asp
1025						1030						1035		
Cys	His	Glu	Leu	Trp	Ser	Lys	Lys	Arg	Arg	Arg	Gln	Arg	Gln	Ser
1040						1045						1050		
Gly	Val	Val	Val	Glu	Glu	Pro	Pro	Pro	Ser	Lys	Thr	Ser	Arg	Lys
1055						1060						1065		
Glu	Thr	Thr	Ser	Gly	Thr	Ser	Thr	Glu	Pro	Val	Lys	Asn	Ser	Ser
1070						1075						1080		
Pro	Ala	Pro	Pro	Gln	Pro	Ala	Pro	Gly	Lys	Val	Glu	Ser	Gly	Ala
1085						1090						1095		
Gly	Asp	Ala	Ile	Gly	Leu	Ala	Asp	Ile	Thr	Gln	Gln	Leu	Asn	Gln
1100						1105						1110		
Ser	Glu	Leu	Ala	Val	Leu	Leu	Asn	Leu	Leu	Gln	Ser	Gln	Thr	Asp
1115						1120						1125		
Leu	Ser	Ile	Pro	Gln	Met	Ala	Gln	Leu	Leu	Asn	Ile	His	Ser	Asn
1130						1135						1140		
Pro	Glu	Met	Gln	Gln	Gln	Leu	Glu	Ala	Leu	Asn	Gln	Ser	Ile	Ser
1145						1150						1155		
Ala	Leu	Thr	Glu	Ala	Thr	Ser	Gln	Gln	Gln	Asp	Ser	Glu	Thr	Met
1160						1165						1170		
Ala	Pro	Glu	Glu	Ser	Leu	Lys	Glu	Ala	Pro	Ser	Ala	Pro	Val	Ile
1175						1180						1185		
Leu	Pro	Ser	Ala	Glu	Gln	Met	Thr	Leu	Glu	Ala	Ser	Ser	Thr	Pro
1190						1195						1200		
Ala	Asp	Met	Gln	Asn	Ile	Leu	Ala	Val	Leu	Leu	Ser	Gln	Leu	Met
1205						1210						1215		
Lys	Thr	Gln	Glu	Pro	Ala	Gly	Ser	Leu	Glu	Glu	Asn	Asn	Ser	Asp
1220						1225						1230		
Lys	Asn	Ser	Gly	Pro	Gln	Gly	Pro	Arg	Arg	Thr	Pro	Thr	Met	Pro
1235						1240						1245		
Gln	Glu	Glu	Ala	Ala	Ala	Cys	Pro	Pro	His	Ile	Leu	Pro	Pro	Glu
1250						1255						1260		
Lys	Arg	Pro	Pro	Glu	Pro	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro
1265						1270						1275		
Pro	Pro	Leu	Val	Glu	Gly	Asp	Leu	Ser	Ser	Ala	Pro	Gln	Glu	Leu
1280						1285						1290		
Asn	Pro	Ala	Val	Thr	Ala	Ala	Leu	Leu	Gln	Leu	Leu	Ser	Gln	Pro
1295						1300						1305		
Glu	Ala	Glu	Pro	Pro	Gly	His	Leu	Pro	His	Glu	His	Gln	Ala	Leu
1310						1315						1320		
Arg	Pro	Met	Glu	Tyr	Ser	Thr	Arg	Pro	Arg	Pro	Asn	Arg	Thr	Tyr
1325						1330						1335		
Gly	Asn	Thr	Asp	Gly	Pro	Glu	Thr	Gly	Phe	Ser	Ala	Ile	Asp	Thr
1340						1345						1350		
Asp	Glu	Arg	Asn	Ser	Gly	Pro	Ala	Leu	Thr	Glu	Ser	Leu	Val	Gln
1355						1360						1365		
Thr	Leu	Val	Lys	Asn	Arg	Thr	Phe	Ser	Gly	Ser	Leu	Ser	His	Leu
1370						1375						1380		
Gly	Glu	Ser	Ser	Ser	Tyr	Gln	Gly	Thr	Gly	Ser	Val	Gln	Phe	Pro
1385						1390						1395		
Gly	Asp	Gln	Asp	Leu	Arg	Phe	Ala	Arg	Val	Pro	Leu	Ala	Leu	His
1400						1405						1410		
Pro	Val	Val	Gly	Gln	Pro	Phe	Leu	Lys	Ala	Glu	Gly	Ser	Ser	Asn
1415						1420						1425		
Ser	Val	Val	His	Ala	Glu	Thr	Lys	Leu	Gln	Asn	Tyr	Gly	Glu	Leu
1430						1435						1440		
Gly	Pro	Gly	Thr	Thr	Gly	Ala	Ser	Ser	Ser	Gly	Ala	Gly	Leu	His
1445						1450						1455		
Trp	Gly	Gly	Pro	Thr	Gln	Ser	Ser	Ala	Tyr	Gly	Lys	Leu	Tyr	Arg
1460						1465						1470		
Gly	Pro	Thr	Arg	Val	Pro	Pro	Arg	Gly	Gly	Arg	Gly	Arg	Gly	Val
1475						1480						1485		
Pro	Tyr													

Siemens 0022 Seq Listing.txt

1490

<210> 32

<211> 381

<212> PRT

<213> Homo sapiens

<400> 32

Met Leu Thr Arg Leu Phe Ser Glu Pro Gly, Leu Leu Ser Asp Val Pro  
1 5 10 15  
Lys Phe Ala Ser Trp Gly Asp Gly Glu Asp Asp Glu Pro Arg Ser Asp  
20 25 30  
Lys Gly Asp Ala Pro Pro Pro Pro Pro Ala Pro Gly Pro Gly Ala  
35 40 45  
Pro Gly Pro Ala Arg Ala Ala Lys Pro Val Pro Leu Arg Gly Glu Glu  
50 55 60  
Gly Thr Glu Ala Thr Leu Ala Glu Val Lys Glu Glu Gly Glu Leu Gly  
65 70 75 80  
Gly Glu Glu Glu Glu Glu Glu Glu Gly Leu Asp Glu Ala  
85 90 95  
Glu Gly Glu Arg Pro Lys Lys Arg Gly Pro Lys Lys Arg Lys Met Thr  
100 105 110  
Lys Ala Arg Leu Glu Arg Ser Lys Leu Arg Arg Gln Lys Ala Asn Ala  
115 120 125  
Arg Glu Arg Asn Arg Met His Asp Leu Asn Ala Ala Leu Asp Asn Leu  
130 135 140  
Arg Lys Val Val Pro Cys Tyr Ser Lys Thr Gln Lys Leu Ser Lys Ile  
145 150 155 160  
Glu Thr Leu Arg Leu Ala Lys Asn Tyr Ile Trp Ala Leu Ser Glu Ile  
165 170 175  
Leu Arg Ser Gly Lys Arg Pro Asp Leu Val Ser Tyr Val Gln Thr Leu  
180 185 190  
Cys Lys Gly Leu Ser Gln Pro Thr Thr Asn Leu Val Ala Gly Cys Leu  
195 200 205  
Gln Leu Asn Ser Arg Asn Phe Leu Thr Glu Gln Gly Ala Asp Gly Ala  
210 215 220  
Gly Arg Phe His Gly Ser Gly Gly Pro Phe Ala Met His Pro Tyr Pro  
225 230 235 240  
Tyr Pro Cys Ser Arg Leu Ala Gly Ala Gln Cys Gln Ala Ala Gly Gly  
245 250 255  
Leu Gly Gly Ala Ala His Ala Leu Arg Thr His Gly Tyr Cys Ala  
260 265 270  
Ala Tyr Glu Thr Leu Tyr Ala Ala Gly Gly Gly Ala Ser Pro  
275 280 285  
Asp Tyr Asn Ser Ser Glu Tyr Glu Gly Pro Leu Ser Pro Pro Leu Cys  
290 295 300  
Leu Asn Gly Asn Phe Ser Leu Lys Gln Asp Ser Ser Pro Asp His Glu  
305 310 315 320  
Lys Ser Tyr His Tyr Ser Met His Tyr Ser Ala Leu Pro Gly Ser Arg  
325 330 335  
His Gly His Gly Leu Val Phe Gly Ser Ser Ala Val Arg Gly Gly Val  
340 345 350  
His Ser Glu Asn Leu Leu Ser Tyr Asp Met His Leu His His Asp Arg  
355 360 365  
Gly Pro Met Tyr Glu Glu Leu Asn Ala Phe Phe His Asn  
370 375 380

<210> 33

<211> 445

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 33

Met Ser Lys Leu Pro Arg Glu Leu Thr Arg Asp Leu Glu Arg Ser Leu  
1 5 10 15  
Pro Ala Val Ala Ser Leu Gly Ser Ser Leu Ser His Ser Gln Ser Leu  
20 25 30  
Ser Ser His Leu Leu Pro Pro Pro Glu Lys Arg Arg Ala Ile Ser Asp  
35 40 45  
Val Arg Arg Thr Phe Cys Leu Phe Val Thr Phe Asp Leu Leu Phe Ile  
50 55 60  
Ser Leu Leu Trp Ile Ile Glu Leu Asn Thr Asn Thr Gly Ile Arg Lys  
65 70 75 80  
Asn Leu Glu Gln Glu Ile Ile Gln Tyr Asn Phe Lys Thr Ser Phe Phe  
85 90 95  
Asp Ile Phe Val Leu Ala Phe Phe Arg Phe Ser Gly Leu Leu Leu Gly  
100 105 110  
Tyr Ala Val Leu Gln Leu Arg His Trp Trp Val Ile Ala Val Thr Thr  
115 120 125  
Leu Val Ser Ser Ala Phe Leu Ile Val Lys Val Ile Leu Ser Glu Leu  
130 135 140  
Leu Ser Lys Gly Ala Phe Gly Tyr Leu Leu Pro Ile Val Ser Phe Val  
145 150 155 160  
Leu Ala Trp Leu Glu Thr Trp Phe Leu Asp Phe Lys Val Leu Pro Gln  
165 170 175  
Glu Ala Glu Glu Glu Arg Trp Tyr Leu Ala Ala Gln Val Ala Val Ala  
180 185 190  
Arg Gly Pro Leu Leu Phe Ser Gly Ala Leu Ser Glu Gly Gln Phe Tyr  
195 200 205  
Ser Pro Pro Glu Ser Phe Ala Gly Ser Asp Asn Glu Ser Asp Glu Glu  
210 215 220  
Val Ala Gly Lys Lys Ser Phe Ser Ala Gln Glu Arg Glu Tyr Ile Arg  
225 230 235 240  
Gln Gly Lys Glu Ala Thr Ala Val Val Asp Gln Ile Leu Ala Gln Glu  
245 250 255  
Glu Asn Trp Lys Phe Glu Lys Asn Asn Glu Tyr Gly Asp Thr Val Tyr  
260 265 270  
Thr Ile Glu Val Pro Phe His Gly Lys Thr Phe Ile Leu Lys Thr Phe  
275 280 285  
Leu Pro Cys Pro Ala Glu Leu Val Tyr Gln Glu Val Ile Leu Gln Pro  
290 295 300  
Glu Arg Met Val Leu Trp Asn Lys Thr Val Thr Ala Cys Gln Ile Leu  
305 310 315 320  
Gln Arg Val Glu Asp Asn Thr Leu Ile Ser Tyr Asp Val Ser Ala Gly  
325 330 335  
Ala Ala Gly Val Val Ser Pro Arg Asp Phe Val Asn Val Arg Arg  
340 345 350  
Ile Glu Arg Arg Arg Asp Arg Tyr Leu Ser Ser Gly Ile Ala Thr Ser  
355 360 365  
His Ser Ala Lys Pro Pro Thr His Lys Tyr Val Arg Gly Glu Asn Gly  
370 375 380  
Pro Gly Gly Phe Ile Val Leu Lys Ser Ala Ser Asn Pro Arg Val Cys  
385 390 395 400  
Thr Phe Val Trp Ile Leu Asn Thr Asp Leu Lys Gly Arg Leu Pro Arg  
405 410 415  
Tyr Leu Ile His Gln Ser Leu Ala Ala Thr Met Phe Glu Phe Ala Phe  
420 425 430  
His Leu Arg Gln Arg Ile Ser Glu Leu Gly Ala Arg Ala  
435 440 445

<210> 34

<211> 167

Siemens 0022 Seq Listing.txt

<212> PRT

<213> Homo sapiens

<400> 34

Met Ala Thr Ser Glu Leu Ser Cys Glu Val Ser Glu Glu Asn Cys Glu  
1 5 10 15  
Arg Arg Glu Ala Phe Trp Ala Glu Trp Lys Asp Leu Thr Leu Ser Thr  
20 25 30  
Arg Pro Glu Glu Gly Cys Ser Leu His Glu Glu Asp Thr Gln Arg His  
35 40 45  
Glu Thr Tyr His Gln Gln Gly Gln Cys Gln Val Leu Val Gln Arg Ser  
50 55 60  
Pro Trp Leu Met Met Arg Met Gly Ile Leu Gly Arg Gly Leu Gln Glu  
65 70 75 80  
Tyr Gln Leu Pro Tyr Gln Arg Val Leu Pro Leu Pro Ile Phe Thr Pro  
85 90 95  
Ala Lys Met Gly Ala Thr Lys Glu Glu Arg Glu Asp Thr Pro Ile Gln  
100 105 110  
Leu Gln Glu Leu Leu Ala Leu Glu Thr Ala Leu Gly Gln Cys Val  
115 120 125  
Asp Arg Gln Glu Val Ala Glu Ile Thr Lys Gln Leu Pro Pro Val Val  
130 135 140  
Pro Val Ser Lys Pro Gly Ala Leu Arg Arg Ser Leu Ser Arg Ser Met  
145 150 155 160  
Ser Gln Glu Ala Gln Arg Gly  
165

<210> 35

<211> 282

<212> PRT

<213> Homo sapiens

<400> 35

Met Ser Gly Ala Asp Arg Ser Pro Asn Ala Gly Ala Ala Pro Asp Ser  
1 5 10 15  
Ala Pro Gly Gln Ala Ala Val Ala Ser Ala Tyr Gln Arg Phe Glu Pro  
20 25 30  
Arg Ala Tyr Leu Arg Asn Asn Tyr Ala Pro Pro Arg Gly Asp Leu Cys  
35 40 45  
Asn Pro Asn Gly Val Gly Pro Trp Lys Leu Arg Cys Leu Ala Gln Thr  
50 55 60  
Phe Ala Thr Gly Glu Val Ser Gly Arg Thr Leu Ile Asp Ile Gly Ser  
65 70 75 80  
Gly Pro Thr Val Tyr Gln Leu Leu Ser Ala Cys Ser His Phe Glu Asp  
85 90 95  
Ile Thr Met Thr Asp Phe Leu Glu Val Asn Arg Gln Glu Leu Gly Arg  
100 105 110  
Trp Leu Gln Glu Glu Pro Gly Ala Phe Asn Trp Ser Met Tyr Ser Gln  
115 120 125  
His Ala Cys Leu Ile Glu Gly Lys Gly Glu Cys Trp Gln Asp Lys Glu  
130 135 140  
Arg Gln Leu Arg Ala Arg Val Lys Arg Val Leu Pro Ile Asp Val His  
145 150 155 160  
Gln Pro Gln Pro Leu Gly Ala Gly Ser Pro Ala Pro Leu Pro Ala Asp  
165 170 175  
Ala Leu Val Ser Ala Phe Cys Leu Glu Ala Val Ser Pro Asp Leu Ala  
180 185 190  
Ser Phe Gln Arg Ala Leu Asp His Ile Thr Thr Leu Leu Arg Pro Gly  
195 200 205

Siemens 0022 Seq Listing.txt

Gly His Leu Leu Leu Ile Gly Ala Leu Glu Glu Ser Trp Tyr Leu Ala  
 210 215 220  
 Gly Glu Ala Arg Leu Thr Val Val Pro Val Ser Glu Glu Glu Val Arg  
 225 230 235 240  
 Glu Ala Leu Val Arg Ser Gly Tyr Lys Val Arg Asp Leu Arg Thr Tyr  
 245 250 255  
 Ile Met Pro Ala His Leu Gln Thr Gly Val Asp Asp Val Lys Gly Val  
 260 265 270  
 Phe Phe Ala Trp Ala Gln Lys Val Gly Leu  
 275 280

<210> 36

<211> 1255

<212> PRT

<213> Homo sapiens

<400> 36  
 Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu  
 1 5 10 15  
 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys  
 20 25 30  
 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His  
 35 40 45  
 Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr  
 50 55 60  
 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val  
 65 70 75 80  
 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu  
 85 90 95  
 100 105 110  
 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro  
 115 120 125  
 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser  
 130 135 140  
 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln  
 145 150 155 160  
 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn  
 165 170 175  
 Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys  
 180 185 190  
 His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser  
 195 200 205  
 Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys  
 210 215 220  
 Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys  
 225 230 235 240  
 Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu  
 245 250 255  
 His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val  
 260 265 270  
 Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg  
 275 280 285  
 Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu  
 290 295 300  
 Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln  
 305 310 315 320  
 Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys  
 325 330 335  
 Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu  
 340 345 350

## Siemens 0022 Seq Listing.txt

Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys  
 355 360 365  
 Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp  
 370 375 380  
 Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe  
 385 390 395 400  
 Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro  
 405 410 415  
 Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg  
 420 425 430  
 Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu  
 435 440 445  
 Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly  
 450 455 460  
 Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val  
 465 470 475 480  
 Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr  
 485 490 495  
 Ala Asn Arg Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His  
 500 505 510  
 Gln Leu Cys Ala Arg Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys  
 515 520 525  
 Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys Val Glu Glu Cys  
 530 535 540  
 Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys  
 545 550 555 560  
 Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys  
 565 570 575  
 Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp  
 580 585 590  
 Pro Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro Asp Leu  
 595 600 605  
 Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln  
 610 615 620  
 Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys  
 625 630 635 640  
 Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser Ile Val Ser  
 645 650 655  
 Ala Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly  
 660 665 670  
 Ile Leu Ile Lys Arg Arg Gln Gln Lys Ile Arg Lys Tyr Thr Met Arg  
 675 680 685  
 Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly  
 690 695 700  
 Ala Met Pro Asn Gln Ala Gln Met Arg Ile Leu Lys Glu Thr Glu Leu  
 705 710 715 720  
 Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys  
 725 730 735  
 Gly Ile Trp Ile Pro Asp Gly Glu Asn Val Lys Ile Pro Val Ala Ile  
 740 745 750  
 Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu  
 755 760 765  
 Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg  
 770 775 780  
 Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln Leu  
 785 790 795 800  
 Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn Arg Gly Arg  
 805 810 815  
 Leu Gly Ser Gln Asp Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly  
 820 825 830  
 Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu Ala Ala  
 835 840 845  
 Arg Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr Asp Phe

Siemens 0022 Seq Listing.txt

850	855	860													
Gly	Leu	Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp
865					870				875						880
Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg
					885				890						895
Arg	Arg	Phe	Thr	His	Gln	Ser	Asp	Val	Trp	Ser	Tyr	Gly	Val	Thr	Val
					900				905						910
Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	Lys	Pro	Tyr	Asp	Gly	Ile	Pro	Ala
					915				920						925
Arg	Glu	Ile	Pro	Asp	Leu	Leu	Glu	Lys	Gly	Glu	Arg	Leu	Pro	Gln	Pro
					930				935						940
Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	Met
					945				950						960
Ile	Asp	Ser	Glu	Cys	Arg	Pro	Arg	Phe	Arg	Glu	Leu	Val	Ser	Glu	Phe
					965				970						975
Ser	Arg	Met	Ala	Arg	Asp	Pro	Gln	Arg	Phe	Val	Val	Ile	Gln	Asn	Glu
					980				985						990
Asp	Leu	Gly	Pro	Ala	Ser	Pro	Leu	Asp	Ser	Thr	Phe	Tyr	Arg	Ser	Leu
					995				1000						1005
Leu	Glu	Asp	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp	Ala	Glu	Glu	Tyr	
					1010				1015						1020
Leu	Val	Pro	Gln	Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	
					1025				1030						1035
Ala	Gly	Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Ser	Thr	Arg	
					1040				1045						1050
Ser	Gly	Gly	Gly	Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	
					1055				1060						1065
Glu	Ala	Pro	Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser	
					1070				1075						1080
Asp	Val	Phe	Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	
					1085				1090						1095
Gln	Ser	Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	
					1100				1105						1110
Glu	Asp	Pro	Thr	Val	Pro	Leu	Pro	Ser	Glu	Thr	Asp	Gly	Tyr	Val	
					1115				1120						1125
Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu	Tyr	Val	Asn	Gln	Pro	
					1130				1135						1140
Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Glu	Gly	Pro	Leu	Pro	
					1145				1150						1155
Ala	Ala	Arg	Pro	Ala	Gly	Ala	Thr	Leu	Glu	Arg	Ala	Lys	Thr	Leu	
					1160				1165						1170
Ser	Pro	Gly	Lys	Asn	Gly	Val	Val	Lys	Asp	Val	Phe	Ala	Phe	Gly	
					1175				1180						1185
Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Thr	Pro	Gln	Gly	Gly	Ala	
					1190				1195						1200
Ala	Pro	Gln	Pro	His	Pro	Pro	Pro	Ala	Phe	Ser	Pro	Ala	Phe	Asp	
					1205				1210						1215
Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala	Pro	
					1220				1225						1230
Pro	Ser	Thr	Phe	Lys	Gly	Thr	Pro	Thr	Ala	Glu	Asn	Pro	Glu	Tyr	
					1235				1240						1245
Leu	Gly	Leu	Asp	Val	Pro	Val									
					1250				1255						

<210> 37

<211> 532

<212> PRT

<213> Homo sapiens

<400> 37

Met Glu Leu Asp Leu Ser Pro Pro His Leu Ser Ser Ser Pro Glu Asp

## Siemens 0022 Seq Listing.txt

1                       5                       10                       15  
 Leu Trp Pro Ala Pro Gly Thr Pro Pro Gly Thr Pro Arg Pro Pro Asp  
     20                   25                       30  
 Thr Pro Leu Pro Glu Glu Val Lys Arg Ser Gln Pro Leu Leu Ile Pro  
     35                   40                       45  
 Thr Thr Gly Arg Lys Leu Arg Glu Glu Glu Arg Arg Ala Thr Ser Leu  
     50                   55                       60  
 Pro Ser Ile Pro Asn Pro Phe Pro Glu Leu Cys Ser Pro Pro Ser Gln  
     65                   70                       75                       80  
 Ser Pro Ile Leu Gly Gly Pro Ser Ser Ala Arg Gly Leu Leu Pro Arg  
     85                   90                       95  
 Asp Ala Ser Arg Pro His Val Val Lys Val Tyr Ser Glu Asp Gly Ala  
     100                  105                       110  
 Cys Arg Ser Val Glu Val Ala Ala Gly Ala Thr Ala Arg His Val Cys  
     115                  120                       125  
 Glu Met Leu Val Gln Arg Ala His Ala Leu Ser Asp Glu Thr Trp Gly  
     130                  135                       140  
 Leu Val Glu Cys His Pro His Leu Ala Leu Glu Arg Gly Leu Glu Asp  
     145                  150                       155                       160  
 His Glu Ser Val Val Glu Val Gln Ala Ala Trp Pro Val Gly Gly Asp  
     165                  170                       175  
 Ser Arg Phe Val Phe Arg Lys Asn Phe Ala Lys Tyr Glu Leu Phe Lys  
     180                  185                       190  
 Ser Ser Pro His Ser Leu Phe Pro Glu Lys Met Val Ser Ser Cys Leu  
     195                  200                       205  
 Asp Ala His Thr Gly Ile Ser His Glu Asp Leu Ile Gln Asn Phe Leu  
     210                  215                       220  
 Asn Ala Gly Ser Phe Pro Glu Ile Gln Gly Phe Leu Gln Leu Arg Gly  
     225                  230                       235                       240  
 Ser Gly Arg Lys Leu Trp Lys Arg Phe Phe Cys Phe Leu Arg Arg Ser  
     245                  250                       255  
 Gly Leu Tyr Tyr Ser Thr Lys Gly Thr Ser Lys Asp Pro Arg His Leu  
     260                  265                       270  
 Gln Tyr Val Ala Asp Val Asn Glu Ser Asn Val Tyr Val Val Thr Gln  
     275                  280                       285  
 Gly Arg Lys Leu Tyr Gly Met Pro Thr Asp Phe Gly Phe Cys Val Lys  
     290                  295                       300  
 Pro Asn Lys Leu Arg Asn Gly His Lys Gly Leu Arg Ile Phe Cys Ser  
     305                  310                       315                       320  
 Glu Asp Glu Gln Ser Arg Thr Cys Trp Leu Ala Ala Phe Arg Leu Phe  
     325                  330                       335  
 Lys Tyr Gly Val Gln Leu Tyr Lys Asn Tyr Gln Gln Ala Gln Ser Arg  
     340                  345                       350  
 His Leu His Pro Ser Cys Leu Gly Ser Pro Pro Leu Arg Ser Ala Ser  
     355                  360                       365  
 Asp Asn Thr Leu Val Ala Met Asp Phe Ser Gly His Ala Gly Arg Val  
     370                  375                       380  
 Ile Glu Asn Pro Arg Glu Ala Leu Ser Val Ala Leu Glu Glu Ala Gln  
     385                  390                       395                       400  
 Ala Trp Arg Lys Lys Thr Asn His Arg Leu Ser Leu Pro Met Pro Ala  
     405                  410                       415  
 Ser Gly Thr Ser Leu Ser Ala Ala Ile His Arg Thr Gln Leu Trp Phe  
     420                  425                       430  
 His Gly Arg Ile Ser Arg Glu Glu Ser Gln Arg Leu Ile Gly Gln Gln  
     435                  440                       445  
 Gly Leu Val Asp Gly Leu Phe Leu Val Arg Glu Ser Gln Arg Asn Pro  
     450                  455                       460  
 Gln Gly Phe Val Leu Ser Leu Cys His Leu Gln Lys Val Lys His Tyr  
     465                  470                       475                       480  
 Leu Ile Leu Pro Ser Glu Glu Gly Arg Leu Tyr Phe Ser Met Asp  
     485                  490                       495  
 Asp Gly Gln Thr Arg Phe Thr Asp Leu Leu Gln Leu Val Glu Phe His  
     500                  505                       510

Siemens 0022 Seq Listing.txt  
Gln Leu Asn Arg Gly Ile Leu Pro Cys Leu Leu Arg His Cys Cys Thr  
515 520 525

Arg Val Ala Leu  
530

<210> 38

<211> 534

<212> PRT

<213> Homo sapiens

<400> 38

Met Lys Gln Glu Gly Ser Ala Arg Arg Arg Gly Ala Asp Lys Ala Lys  
1 5 10 15  
Pro Pro Pro Gly Gly Glu Gln Glu Pro Pro Pro Pro Pro Ala Pro  
20 25 30  
Gln Asp Val Glu Met Lys Glu Glu Ala Ala Thr Gly Gly Ser Thr  
35 40 45  
Gly Glu Ala Asp Gly Lys Thr Ala Ala Ala Val Glu His Ser Gln  
50 55 60  
Arg Glu Leu Asp Thr Val Thr Leu Glu Asp Ile Lys Glu His Val Lys  
65 70 75 80  
Gln Leu Glu Lys Ala Val Ser Gly Lys Glu Pro Arg Phe Val Leu Arg  
85 90 95  
Ala Leu Arg Met Leu Pro Ser Thr Ser Arg Arg Leu Asn His Tyr Val  
100 105 110  
Leu Tyr Lys Ala Val Gln Gly Phe Phe Thr Ser Asn Asn Ala Thr Arg  
115 120 125  
Asp Phe Leu Leu Pro Phe Leu Glu Glu Pro Met Asp Thr Glu Ala Asp  
130 135 140  
Leu Gln Phe Arg Pro Arg Thr Gly Lys Ala Ala Ser Thr Pro Leu Leu  
145 150 155 160  
Pro Glu Val Glu Ala Tyr Leu Gln Leu Leu Val Val Ile Phe Met Met  
165 170 175  
Asn Ser Lys Arg Tyr Lys Glu Ala Gln Lys Ile Ser Asp Asp Leu Met  
180 185 190  
Gln Lys Ile Ser Thr Gln Asn Arg Arg Ala Leu Asp Leu Val Ala Ala  
195 200 205  
Lys Cys Tyr Tyr Tyr His Ala Arg Val Tyr Glu Phe Leu Asp Lys Leu  
210 215 220  
Asp Val Val Arg Ser Phe Leu His Ala Arg Leu Arg Thr Ala Thr Leu  
225 230 235 240  
Arg His Asp Ala Asp Gly Gln Ala Thr Leu Leu Asn Leu Leu Arg  
245 250 255  
Asn Tyr Leu His Tyr Ser Leu Tyr Asp Gln Ala Glu Lys Leu Val Ser  
260 265 270  
Lys Ser Val Phe Pro Glu Gln Ala Asn Asn Asn Glu Trp Ala Arg Tyr  
275 280 285  
Leu Tyr Tyr Thr Gly Arg Ile Lys Ala Ile Gln Leu Glu Tyr Ser Glu  
290 295 300  
Ala Arg Arg Thr Met Thr Asn Ala Leu Arg Lys Ala Pro Gln His Thr  
305 310 315 320  
Ala Val Gly Phe Lys Gln Thr Val His Lys Leu Leu Ile Val Val Glu  
325 330 335  
Leu Leu Leu Gly Glu Ile Pro Asp Arg Leu Gln Phe Arg Gln Pro Ser  
340 345 350  
Leu Lys Arg Ser Leu Met Pro Tyr Phe Leu Leu Thr Gln Ala Val Arg  
355 360 365  
Thr Gly Asn Leu Ala Lys Phe Asn Gln Val Leu Asp Gln Phe Gly Glu  
370 375 380  
Lys Phe Gln Ala Asp Gly Thr Tyr Thr Leu Ile Ile Arg Leu Arg His  
385 390 395 400

Siemens 0022 Seq Listing.txt

Asn Val Ile Lys Thr Gly Val Arg Met Ile Ser Leu Ser Tyr Ser Arg  
405 410 415  
Ile Ser Leu Ala Asp Ile Ala Gln Lys Leu Gln Leu Asp Ser Pro Glu  
420 425 430  
Asp Ala Glu Phe Ile Val Ala Lys Ala Ile Arg Asp Gly Val Ile Glu  
435 440 445  
Ala Ser Ile Asn His Glu Lys Gly Tyr Val Gln Ser Lys Glu Met Ile  
450 455 460  
Asp Ile Tyr Ser Thr Arg Glu Pro Gln Leu Ala Phe His Gln Arg Ile  
465 470 475 480  
Ser Phe Cys Leu Asp Ile His Asn Met Ser Val Lys Ala Met Arg Phe  
485 490 495  
Pro Pro Lys Ser Tyr Asn Lys Asp Leu Glu Ser Ala Glu Glu Arg Arg  
500 505 510  
Glu Arg Glu Gln Gln Asp Leu Glu Phe Ala Lys Glu Met Ala Glu Asp  
515 520 525  
Asp Asp Asp Ser Phe Pro  
530  
<210> 39

<211> 207

<212> PRT

<213> Homo sapiens

<400> 39  
Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln  
1 5 10 15  
Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro  
20 25 30  
Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu  
35 40 45  
Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys  
50 55 60  
Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
65 70 75 80  
Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
85 90 95  
Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
100 105 110  
Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
115 120 125  
Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
130 135 140  
Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
145 150 155 160  
Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
165 170 175  
Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
180 185 190  
Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
195 200 205  
<210> 40

<211> 989

<212> PRT

<213> Homo sapiens

<400> 40  
Met Lys Val Val Asn Leu Lys Gln Ala Ile Leu Gln Ala Trp Lys Glu  
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## Siemens 0022 Seq Listing.txt

1 5 10 15  
 Arg Trp Ser Tyr Tyr Gln Trp Ala Ile Asn Met Lys Lys Phe Phe Pro  
 20 25 30  
 Lys Gly Ala Thr Trp Asp Ile Leu Asn Leu Ala Asp Ala Leu Leu Glu  
 35 40 45  
 Gln Ala Met Ile Gly Pro Ser Pro Asn Pro Leu Ile Leu Ser Tyr Leu  
 50 55 60  
 Lys Tyr Ala Ile Ser Ser Gln Met Val Ser Tyr Ser Ser Val Leu Thr  
 65 70 75 80  
 Ala Ile Ser Lys Phe Asp Asp Phe Ser Arg Asp Leu Cys Val Gln Ala  
 85 90 95  
 Leu Leu Asp Ile Met Asp Met Phe Cys Asp Arg Leu Ser Cys His Gly  
 100 105 110  
 Lys Ala Glu Glu Cys Ile Gly Leu Cys Arg Ala Leu Leu Ser Ala Leu  
 115 120 125  
 His Trp Leu Leu Arg Cys Thr Ala Ala Ser Ala Glu Arg Leu Arg Glu  
 130 135 140  
 Gly Leu Glu Ala Gly Thr Pro Ala Ala Gly Glu Lys Gln Leu Ala Met  
 145 150 155 160  
 Cys Leu Gln Arg Leu Glu Lys Thr Leu Ser Ser Thr Lys Asn Arg Ala  
 165 170 175  
 Leu Leu His Ile Ala Lys Leu Glu Glu Ala Ser Ser Trp Thr Ala Ile  
 180 185 190  
 Glu His Ser Leu Leu Lys Leu Gly Glu Ile Leu Thr Asn Leu Ser Asn  
 195 200 205  
 Pro Gln Leu Arg Ser Gln Ala Glu Gln Cys Gly Thr Leu Ile Arg Ser  
 210 215 220  
 Ile Pro Thr Met Leu Ser Val His Ala Glu Gln Met His Lys Thr Gly  
 225 230 235 240  
 Phe Pro Thr Val His Ala Val Ile Leu Leu Glu Gly Thr Met Asn Leu  
 245 250 255  
 Thr Gly Glu Thr Gln Ser Leu Val Glu Gln Leu Thr Met Val Lys Arg  
 260 265 270  
 Met Gln His Ile Pro Thr Pro Leu Phe Val Leu Glu Ile Trp Lys Ala  
 275 280 285  
 Cys Phe Val Gly Leu Ile Glu Ser Pro Glu Gly Thr Glu Glu Leu Lys  
 290 295 300  
 Trp Thr Ala Phe Thr Phe Leu Lys Ile Pro Gln Val Leu Val Lys Leu  
 305 310 315 320  
 Lys Lys Tyr Ser His Gly Asp Lys Asp Phe Thr Glu Asp Val Asn Cys  
 325 330 335  
 Ala Phe Glu Phe Leu Leu Lys Leu Thr Pro Leu Leu Asp Lys Ala Asp  
 340 345 350  
 Gln Arg Cys Asn Cys Asp Cys Thr Asn Phe Leu Leu Gln Glu Cys Gly  
 355 360 365  
 Lys Gln Gly Leu Leu Ser Glu Ala Ser Val Asn Asn Leu Met Ala Lys  
 370 375 380  
 Arg Lys Ala Asp Arg Glu His Ala Pro Gln Gln Lys Ser Gly Glu Asn  
 385 390 395 400  
 Ala Asn Ile Gln Pro Asn Ile Gln Leu Ile Leu Arg Ala Glu Pro Thr  
 405 410 415  
 Val Thr Asn Ile Leu Lys Thr Met Asp Ala Asp His Ser Lys Ser Pro  
 420 425 430  
 Glu Gly Leu Leu Gly Val Leu Gly His Met Leu Ser Gly Lys Ser Leu  
 435 440 445  
 Asp Leu Leu Ala Ala Ala Ala Ala Thr Gly Lys Leu Lys Ser Phe  
 450 455 460  
 Ala Arg Lys Phe Ile Asn Leu Asn Glu Phe Thr Thr Tyr Gly Ser Glu  
 465 470 475 480  
 Glu Ser Thr Lys Pro Ala Ser Val Arg Ala Leu Leu Phe Asp Ile Ser  
 485 490 495  
 Phe Leu Met Leu Cys His Val Ala Gln Thr Tyr Gly Ser Glu Val Ile  
 500 505 510

## Siemens 0022 Seq Listing.txt

Leu Ser Glu Ser Arg Thr Gly Ala Glu Val Pro Phe Phe Glu Thr Trp  
 515 520 525  
 Met Gln Thr Cys Met Pro Glu Glu Gly Lys Ile Leu Asn Pro Asp His  
 530 535 540  
 Pro Cys Phe Arg Pro Asp Ser Thr Lys Val Glu Ser Leu Val Ala Leu  
 545 550 555 560  
 Leu Asn Asn Ser Ser Glu Met Lys Leu Val Gln Met Lys Trp His Glu  
 565 570 575  
 Ala Cys Leu Ser Ile Ser Ala Ala Ile Leu Glu Ile Leu Asn Ala Trp  
 580 585 590  
 Glu Asn Gly Val Leu Ala Phe Glu Ser Ile Gln Lys Ile Thr Asp Asn  
 595 600 605  
 Ile Lys Gly Lys Val Cys Ser Leu Ala Val Cys Ala Val Ala Trp Leu  
 610 615 620  
 Val Ala His Val Arg Met Leu Gly Leu Asp Glu Arg Glu Lys Ser Leu  
 625 630 635 640  
 Gln Met Ile Arg Gln Leu Ala Gly Pro Leu Phe Ser Glu Asn Thr Leu  
 645 650 655  
 Gln Phe Tyr Asn Glu Arg Val Val Ile Met Asn Ser Ile Leu Glu Arg  
 660 665 670  
 Met Cys Ala Asp Val Leu Gln Gln Thr Ala Thr Gln Ile Lys Phe Pro  
 675 680 685  
 Ser Thr Gly Val Asp Thr Met Pro Tyr Trp Asn Leu Leu Pro Pro Lys  
 690 695 700  
 Arg Pro Ile Lys Glu Val Leu Thr Asp Ile Phe Ala Lys Val Leu Glu  
 705 710 715 720  
 Lys Gly Trp Val Asp Ser Arg Ser Ile His Ile Phe Asp Thr Leu Leu  
 725 730 735  
 His Met Gly Gly Val Tyr Trp Phe Cys Asn Asn Leu Ile Lys Glu Leu  
 740 745 750  
 Leu Lys Glu Thr Arg Lys Glu His Thr Leu Arg Ala Val Glu Leu Leu  
 755 760 765  
 Tyr Ser Ile Phe Cys Leu Asp Met Gln Gln Val Thr Leu Val Leu Leu  
 770 775 780  
 Gly His Ile Leu Pro Gly Leu Leu Thr Asp Ser Ser Lys Trp His Ser  
 785 790 795 800  
 Leu Met Asp Pro Pro Gly Thr Ala Leu Ala Lys Leu Ala Val Trp Cys  
 805 810 815  
 Ala Leu Ser Ser Tyr Ser Ser His Lys Gly Gln Ala Ser Thr Arg Gln  
 820 825 830  
 Lys Lys Arg His Arg Glu Asp Ile Glu Asp Tyr Ile Ser Leu Phe Pro  
 835 840 845  
 Leu Asp Asp Val Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn  
 850 855 860  
 Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro Thr Asp Arg Ser Met Ser  
 865 870 875 880  
 Ser Ser Leu Ser Ala Ser Gln Leu His Thr Val Asn Met Arg Asp Pro  
 885 890 895  
 Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile Ser Ser Ile Leu  
 900 905 910  
 Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val Gln Trp Phe Met  
 915 920 925  
 Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Arg Gly Ser Val Leu  
 930 935 940  
 Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val Lys Val Ser Ala  
 945 950 955 960  
 Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp Leu Ser Leu Pro  
 965 970 975  
 Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala Leu  
 980 985

&lt;210&gt; 41

&lt;211&gt; 490

Siemens 0022 Seq Listing.txt

<212> PRT

<213> Homo sapiens

<400> 41  
Met Glu Gln Lys Pro Ser Lys Val Glu Cys Gly Ser Asp Pro Glu Glu  
1 5 10 15  
Asn Ser Ala Arg Ser Pro Asp Gly Lys Arg Lys Arg Lys Asn Gly Gln  
20 25 30  
Cys Ser Leu Lys Thr Ser Met Ser Gly Tyr Ile Pro Ser Tyr Leu Asp  
35 40 45  
Lys Asp Glu Gln Cys Val Val Cys Gly Asp Lys Ala Thr Gly Tyr His  
50 55 60  
Tyr Arg Cys Ile Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr  
65 70 75 80  
Ile Gln Lys Asn Leu His Pro Thr Tyr Ser Cys Lys Tyr Asp Ser Cys  
85 90 95  
Cys Val Ile Asp Lys Ile Thr Arg Asn Gln Cys Gln Leu Cys Arg Phe  
100 105 110  
Lys Lys Cys Ile Ala Val Gly Met Ala Met Asp Leu Val Leu Asp Asp  
115 120 125  
Ser Lys Arg Val Ala Lys Arg Lys Leu Ile Glu Gln Asn Arg Glu Arg  
130 135 140  
Arg Arg Lys Glu Glu Met Ile Arg Ser Leu Gln Gln Arg Pro Glu Pro  
145 150 155 160  
Thr Pro Glu Glu Trp Asp Leu Ile His Ile Ala Thr Glu Ala His Arg  
165 170 175  
Ser Thr Asn Ala Gln Gly Ser His Trp Lys Gln Arg Arg Lys Phe Leu  
180 185 190  
Pro Asp Asp Ile Gly Gln Ser Pro Ile Val Ser Met Pro Asp Gly Asp  
195 200 205  
Lys Val Asp Leu Glu Ala Phe Ser Glu Phe Thr Lys Ile Ile Thr Pro  
210 215 220  
Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met Phe Ser  
225 230 235 240  
Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys Cys Met  
245 250 255  
Glu Ile Met Ser Leu Arg Ala Ala Val Arg Tyr Asp Pro Glu Ser Asp  
260 265 270  
Thr Leu Thr Leu Ser Gly Glu Met Ala Val Lys Arg Glu Gln Leu Lys  
275 280 285  
Asn Gly Gly Leu Gly Val Val Ser Asp Ala Ile Phe Glu Leu Gly Lys  
290 295 300  
Ser Leu Ser Ala Phe Asn Leu Asp Asp Thr Glu Val Ala Leu Leu Gln  
305 310 315 320  
Ala Val Leu Leu Met Ser Thr Asp Arg Ser Gly Leu Leu Cys Val Asp  
325 330 335  
Lys Ile Glu Lys Ser Gln Glu Ala Tyr Leu Leu Ala Phe Glu His Tyr  
340 345 350  
Val Asn His Arg Lys His Asn Ile Pro His Phe Trp Pro Lys Leu Leu  
355 360 365  
Met Lys Glu Arg Glu Val Gln Ser Ser Ile Leu Tyr Lys Gly Ala Ala  
370 375 380  
Ala Glu Gly Arg Pro Gly Gly Ser Leu Gly Val His Pro Glu Gly Gln  
385 390 395 400  
Gln Leu Leu Gly Met His Val Val Gln Gly Pro Gln Val Arg Gln Leu  
405 410 415  
Glu Gln Gln Leu Gly Glu Ala Gly Ser Leu Gln Gly Pro Val Leu Gln  
420 425 430  
His Gln Ser Pro Lys Ser Pro Gln Gln Arg Leu Leu Glu Leu Leu His  
435 440 445  
Arg Ser Gly Ile Leu His Ala Arg Ala Val Cys Gly Glu Asp Asp Ser

## Siemens 0022 Seq Listing.txt

450		455		460											
Ser	Glu	Ala	Asp	Ser	Pro	Ser	Ser	Ser	Glu	Glu	Glu	Pro	Glu	Val	Cys
465					470				475						480
Glu	Asp	Leu	Ala	Gly	Asn	Ala	Ala	Ser	Pro						
				485				490							
<210>	42														
<211>	614														
<212>	PRT														
<213>	Homo sapiens														
<400>	42														
Met	Thr	Thr	Leu	Asp	Ser	Asn	Asn	Asn	Thr	Gly	Gly	Val	Ile	Thr	Tyr
1					5				10				15		
Ile	Gly	Ser	Ser	Gly	Ser	Ser	Pro	Ser	Arg	Thr	Ser	Pro	Glu	Ser	Leu
					20			25					30		
Tyr	Ser	Asp	Asn	Ser	Asn	Gly	Ser	Phe	Gln	Ser	Leu	Thr	Gln	Gly	Cys
					35			40					45		
Pro	Thr	Tyr	Phe	Pro	Pro	Ser	Pro	Thr	Gly	Ser	Leu	Thr	Gln	Asp	Pro
	50					55					60				
Ala	Arg	Ser	Phe	Gly	Ser	Ile	Pro	Pro	Ser	Leu	Ser	Asp	Asp	Gly	Ser
65				70					75				80		
Pro	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Phe	Tyr	Asn
					85				90				95		
Gly	Ser	Pro	Pro	Gly	Ser	Leu	Gln	Val	Ala	Met	Glu	Asp	Ser	Ser	Arg
		100					105					110			
val	Ser	Pro	Ser	Lys	Ser	Thr	Ser	Asn	Ile	Thr	Lys	Leu	Asn	Gly	Met
		115					120					125			
Val	Leu	Leu	Cys	Lys	Val	Cys	Gly	Asp	Val	Ala	Ser	Gly	Phe	His	Tyr
	130					135					140				
Gly	Val	Leu	Ala	Cys	Glu	Gly	Cys	Lys	Gly	Phe	Phe	Arg	Arg	Ser	Ile
145					150				155				160		
Gln	Gln	Asn	Ile	Gln	Tyr	Lys	Arg	Cys	Leu	Lys	Asn	Glu	Asn	Cys	Ser
					165				170				175		
Ile	Val	Arg	Ile	Asn	Arg	Asn	Arg	Cys	Gln	Gln	Cys	Arg	Phe	Lys	Lys
		180					185					190			
Cys	Leu	Ser	Val	Gly	Met	Ser	Arg	Asp	Ala	Val	Arg	Phe	Gly	Arg	Ile
		195					200				205				
Pro	Lys	Arg	Glu	Lys	Gln	Arg	Met	Leu	Ala	Glu	Met	Gln	Ser	Ala	Met
	210					215					220				
Asn	Leu	Ala	Asn	Asn	Gln	Leu	Ser	Ser	Gln	Cys	Pro	Leu	Glu	Thr	Ser
225					230				235				240		
Pro	Thr	Gln	His	Pro	Thr	Pro	Gly	Pro	Met	Gly	Pro	Ser	Pro	Pro	Pro
							245		250				255		
Ala	Pro	Val	Pro	Ser	Pro	Leu	Val	Gly	Phe	Ser	Gln	Phe	Pro	Gln	Gln
		260					265					270			
Leu	Thr	Pro	Pro	Arg	Ser	Pro	Ser	Pro	Glu	Pro	Thr	Val	Glu	Asp	Val
	275					280					285				
Ile	Ser	Gln	Val	Ala	Arg	Ala	His	Arg	Glu	Ile	Phe	Thr	Tyr	Ala	His
		290				295				300					
Asp	Lys	Leu	Gly	Ser	Ser	Pro	Gly	Asn	Phe	Asn	Ala	Asn	His	Ala	Ser
305						310				315				320	
Gly	Ser	Pro	Pro	Ala	Thr	Thr	Pro	His	Arg	Trp	Glu	Asn	Gln	Gly	Cys
							325		330				335		
Pro	Pro	Ala	Pro	Asn	Asp	Asn	Asn	Thr	Leu	Ala	Ala	Gln	Arg	His	Asn
							340		345				350		
Glu	Ala	Leu	Asn	Gly	Leu	Arg	Gln	Ala	Pro	Ser	Ser	Tyr	Pro	Pro	Thr
		355				360					365				
Trp	Pro	Pro	Gly	Pro	Ala	His	His	Ser	Cys	His	Gln	Ser	Asn	Ser	Asn
		370				375				380					
Gly	His	Arg	Leu	Cys	Pro	Thr	His	Val	Tyr	Ala	Ala	Pro	Glu	Gly	Lys

## Siemens 0022 Seq Listing.txt

385	390	395	400												
Ala	Pro	Ala	Asn	Ser	Pro	Arg	Gln	Gly	Asn	Ser	Lys	Asn	Val	Leu	Leu
				405				410						415	
Ala	Cys	Pro	Met	Asn	Met	Tyr	Pro	His	Gly	Arg	Ser	Gly	Arg	Thr	Val
			420				425						430		
Gln	Glu	Ile	Trp	Glu	Asp	Phe	Ser	Met	Ser	Phe	Thr	Pro	Ala	Val	Arg
			435				440					445			
Glu	Val	Val	Glu	Phe	Ala	Lys	His	Ile	Pro	Gly	Phe	Arg	Asp	Leu	Ser
			450			455					460				
Gln	His	Asp	Gln	Val	Thr	Leu	Leu	Lys	Ala	Gly	Thr	Phe	Glu	Val	Leu
			465		470			475					480		
Met	Val	Arg	Phe	Ala	Ser	Leu	Phe	Asn	Val	Lys	Asp	Gln	Thr	Val	Met
			485			490					495				
Phe	Leu	Ser	Arg	Thr	Thr	Tyr	Ser	Leu	Gln	Glu	Leu	Gly	Ala	Met	Gly
			500			505						510			
Met	Gly	Asp	Leu	Leu	Ser	Ala	Met	Phe	Asp	Phe	Ser	Glu	Lys	Leu	Asn
			515			520					525				
Ser	Leu	Ala	Leu	Thr	Glu	Glu	Leu	Gly	Leu	Phe	Thr	Ala	Val	Val	
			530			535					540				
Leu	Val	Ser	Ala	Asp	Arg	Ser	Gly	Met	Glu	Asn	Ser	Ala	Ser	Val	Glu
			545			550				555					560
Gln	Leu	Gln	Glu	Thr	Leu	Leu	Arg	Ala	Leu	Arg	Ala	Leu	Val	Leu	Lys
			565			570					575				
Asn	Arg	Pro	Leu	Glu	Thr	Ser	Arg	Phe	Thr	Lys	Leu	Leu	Leu	Lys	Leu
			580			585					590				
Pro	Asp	Leu	Arg	Thr	Leu	Asn	Asn	Met	His	Ser	Glu	Lys	Leu	Leu	Ser
			595			600					605				
Phe	Arg	Val	Asp	Ala	Gln										
		610													

&lt;210&gt; 43

&lt;211&gt; 703

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

Met	Ala	Asp	Arg	Arg	Arg	Gln	Arg	Ala	Ser	Gln	Asp	Thr	Glu	Asp	Glu
1						5			10			15			
Glu	Ser	Gly	Ala	Ser	Gly	Ser	Asp	Ser	Gly	Gly	Ser	Pro	Leu	Arg	Gly
						20			25			30			
Gly	Gly	Ser	Cys	Ser	Gly	Ser	Ala	Gly	Gly	Gly	Ser	Gly	Ser	Leu	
						35			40			45			
Pro	Ser	Gln	Arg	Gly	Gly	Arg	Thr	Gly	Ala	Leu	His	Leu	Arg	Arg	Val
						50			55			60			
Glu	Ser	Gly	Gly	Ala	Lys	Ser	Ala	Glu	Glu	Ser	Glu	Cys	Glu	Ser	Glu
					65			70			75			80	
Asp	Gly	Ile	Glu	Gly	Asp	Ala	Val	Leu	Ser	Asp	Tyr	Glu	Ser	Ala	Glu
						85			90			95			
Asp	Ser	Glu	Gly	Glu	Gly	Glu	Tyr	Ser	Glu	Glu	Glu	Asn	Ser	Lys	
						100			105			110			
Val	Glu	Leu	Lys	Ser	Glu	Ala	Asn	Asp	Ala	Val	Asn	Ser	Ser	Thr	Lys
						115			120			125			
Glu	Glu	Lys	Gly	Glu	Glu	Lys	Pro	Asp	Thr	Lys	Ser	Thr	Val	Thr	Gly
						130			135			140			
Glu	Arg	Gln	Ser	Gly	Asp	Gly	Gln	Glu	Ser	Thr	Glu	Pro	Val	Glu	Asn
						145			150			155			160
Lys	Val	Gly	Lys	Lys	Gly	Pro	Lys	His	Leu	Asp	Asp	Asp	Glu	Asp	Arg
						165			170			175			
Lys	Asn	Pro	Ala	Tyr	Ile	Pro	Arg	Lys	Gly	Leu	Phe	Phe	Glu	His	Asp
						180			185			190			
Leu	Arg	Gly	Gln	Thr	Gln	Glu	Glu	Val	Arg	Pro	Lys	Gly	Arg	Gln	

## Siemens 0022 Seq Listing.txt

195	Arg Lys Leu Trp Lys Asp Glu Gly Arg Trp Glu His Asp Lys Phe Arg
200	205
210	215 220
225	Glu Asp Glu Gln Ala Pro Lys Ser Arg Gln Glu Leu Ile Ala Leu Tyr
230	235 240
245	Gly Tyr Asp Ile Arg Ser Ala His Asn Pro Asp Asp Ile Lys Pro Arg
250	255
260	Arg Ile Arg Lys Pro Arg Tyr Gly Ser Pro Pro Gln Arg Asp Pro Asn
265	270
275	Trp Asn Gly Glu Arg Leu Asn Lys Ser His Arg His Gln Gly Leu Gly
280	285
290	Gly Thr Leu Pro Pro Arg Thr Phe Ile Asn Arg Asn Ala Ala Gly Thr
295	300
305	Gly Arg Met Ser Ala Pro Arg Asn Tyr Ser Arg Ser Gly Gly Phe Lys
310	315 320
325	Glu Gly Arg Ala Gly Phe Arg Pro Val Glu Ala Gly Gly Gln His Gly
330	335
340	Gly Arg Ser Gly Glu Thr Val Lys His Glu Ile Ser Tyr Arg Ser Arg
345	350
355	Arg Leu Glu Gln Thr Ser Val Arg Asp Pro Ser Pro Glu Ala Asp Ala
360	365
370	Pro Val Leu Gly Ser Pro Glu Lys Glu Glu Ala Ala Ser Glu Pro Pro
375	380
385	Ala Ala Ala Pro Asp Ala Ala Pro Pro Pro Pro Asp Arg Pro Ile Glu
390	395 400
405	Lys Lys Ser Tyr Ser Arg Ala Arg Arg Thr Arg Thr Lys Val Gly Asp
410	415
420	Ala Val Lys Leu Ala Glu Glu Val Pro Pro Pro Pro Glu Gly Leu Ile
425	430
435	Pro Ala Pro Pro Val Pro Glu Thr Thr Pro Thr Pro Pro Thr Lys Thr
440	445
450	Gly Thr Trp Glu Ala Pro Val Asp Ser Ser Thr Ser Gly Leu Glu Gln
455	460
465	Asp Val Ala Gln Leu Asn Ile Ala Glu Gln Asn Trp Ser Pro Gly Gln
470	475 480
485	Pro Ser Phe Leu Gln Pro Arg Glu Leu Arg Gly Met Pro Asn His Ile
490	495
500	His Met Gly Ala Gly Pro Pro Pro Gln Phe Asn Arg Met Glu Glu Met
505	510
515	Gly Val Gln Gly Gly Arg Ala Lys Arg Tyr Ser Ser Gln Arg Gln Arg
520	525
530	Pro Val Pro Glu Pro Pro Ala Pro Pro Val His Ile Ser Ile Met Glu
535	540
545	Gly His Tyr Tyr Asp Pro Leu Gln Phe Gln Gly Pro Ile Tyr Thr His
550	555 560
565	Gly Asp Ser Pro Ala Pro Leu Pro Pro Gln Gly Met Leu Val Gln Pro
570	575
580	Gly Met Asn Leu Pro His Pro Gly Leu His Pro His Gln Thr Pro Ala
585	590
595	Pro Leu Pro Asn Pro Gly Leu Tyr Pro Pro Pro Val Ser Met Ser Pro
600	605
610	Gly Gln Pro Pro Pro Gln Gln Leu Leu Ala Pro Thr Tyr Phe Ser Ala
615	620
625	Pro Gly Val Met Asn Phe Gly Asn Pro Ser Tyr Pro Tyr Ala Pro Gly
630	635 640
645	Ala Leu Pro Pro Pro Pro His Leu Tyr Pro Asn Thr Gln Ala
650	655
660	Pro Ser Gln Val Tyr Gly Gly Val Thr Tyr Tyr Asn Pro Ala Gln Gln
665	670
675	Gln Val Gln Pro Lys Pro Ser Pro Pro Arg Arg Thr Pro Gln Pro Val
680	685
690	Thr Ile Lys Pro Pro Pro Pro Glu Val Val Ser Arg Gly Ser Ser
695	700

Siemens 0022 Seq Listing.txt

<210> 44

<211> 560

<212> PRT

<213> Homo sapiens

<400> 44

Met	Pro	Gln	Thr	Arg	Ser	Gln	Ala	Gln	Ala	Thr	Ile	Ser	Phe	Pro	Lys
1		5				10				15					
Arg	Lys	Leu	Ser	Arg	Ala	Leu	Asn	Lys	Ala	Lys	Asn	Ser	Ser	Asp	Ala
		20				25				30					
Lys	Leu	Glu	Pro	Thr	Asn	Val	Gln	Thr	Val	Thr	Cys	Ser	Pro	Arg	Val
		35				40				45					
Lys	Ala	Leu	Pro	Leu	Ser	Pro	Arg	Lys	Arg	Leu	Gly	Asp	Asp	Asn	Leu
		50				55			60						
Cys	Asn	Thr	Pro	His	Leu	Pro	Pro	Cys	Ser	Pro	Pro	Lys	Gln	Gly	Lys
		65			70			75		80					
Lys	Glu	Asn	Gly	Pro	Pro	His	Ser	His	Thr	Leu	Lys	Gly	Arg	Arg	Leu
		85				90			95						
Val	Phe	Asp	Asn	Gln	Leu	Thr	Ile	Lys	Ser	Pro	Ser	Lys	Arg	Glu	Leu
		100				105				110					
Ala	Lys	Val	His	Gln	Asn	Lys	Ile	Leu	Ser	Ser	Val	Arg	Lys	Ser	Gln
		115				120				125					
Glu	Ile	Thr	Thr	Asn	Ser	Glu	Gln	Arg	Cys	Pro	Leu	Lys	Lys	Glu	Ser
		130				135				140					
Ala	Cys	Val	Arg	Leu	Phe	Lys	Gln	Glu	Gly	Thr	Cys	Tyr	Gln	Gln	Ala
		145			150			155			160				
Lys	Leu	Val	Leu	Asn	Thr	Ala	Val	Pro	Asp	Arg	Leu	Pro	Ala	Arg	Glu
		165				170			175						
Arg	Glu	Met	Asp	Val	Ile	Arg	Asn	Phe	Leu	Arg	Glu	His	Ile	Cys	Gly
		180				185				190					
Lys	Lys	Ala	Gly	Ser	Leu	Tyr	Leu	Ser	Gly	Ala	Pro	Gly	Thr	Gly	Lys
		195				200			205						
Thr	Ala	Cys	Leu	Ser	Arg	Ile	Leu	Gln	Asp	Leu	Lys	Lys	Glu	Leu	Lys
		210				215			220						
Gly	Phe	Lys	Thr	Ile	Met	Leu	Asn	Cys	Met	Ser	Leu	Arg	Thr	Ala	Gln
		225			230			235			240				
Ala	Val	Phe	Pro	Ala	Ile	Ala	Gln	Glu	Ile	Cys	Gln	Glu	Glu	Val	Ser
		245				250			255						
Arg	Pro	Ala	Gly	Lys	Asp	Met	Met	Arg	Lys	Leu	Glu	Lys	His	Met	Thr
		260				265			270						
Ala	Glu	Lys	Gly	Pro	Met	Ile	Val	Leu	Val	Leu	Asp	Glu	Met	Asp	Gln
		275				280			285						
Leu	Asp	Ser	Lys	Gly	Gln	Asp	Val	Leu	Tyr	Thr	Leu	Phe	Glu	Trp	Pro
		290				295			300						
Trp	Leu	Ser	Asn	Ser	His	Leu	Val	Leu	Ile	Gly	Ile	Ala	Asn	Thr	Leu
		305				310			315			320			
Asp	Leu	Thr	Asp	Arg	Ile	Leu	Pro	Arg	Leu	Gln	Ala	Arg	Glu	Lys	Cys
		325				330			335						
Lys	Pro	Gln	Leu	Leu	Asn	Phe	Pro	Pro	Tyr	Thr	Arg	Asn	Gln	Ile	Val
		340				345				350					
Thr	Ile	Leu	Gln	Asp	Arg	Leu	Asn	Gln	Val	Ser	Arg	Asp	Gln	Val	Leu
		355				360			365						
Asp	Asn	Ala	Ala	Val	Gln	Phe	Cys	Ala	Arg	Lys	Val	Ser	Ala	Val	Ser
		370				375			380						
Gly	Asp	Val	Arg	Lys	Ala	Leu	Asp	Val	Cys	Arg	Arg	Ala	Ile	Glu	Ile
		385				390			395			400			
Val	Glu	Ser	Asp	Val	Lys	Ser	Gln	Thr	Ile	Leu	Lys	Pro	Leu	Ser	Glu
		405				410			415						
Cys	Lys	Ser	Pro	Ser	Glu	Pro	Leu	Ile	Pro	Lys	Arg	Val	Gly	Leu	Ile
		420				425			430						

Siemens 0022 Seq Listing.txt

His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met Thr Leu  
435 440 445  
Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys Ile Leu  
450 455 460  
Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys Glu Val  
465 470 475 480  
Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg Lys Gln  
485 490 495  
Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser Gly Leu  
500 505 510  
Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu Thr Arg  
515 520 525  
Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu His Ala  
530 535 540  
Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly Leu Pro  
545 550 555 560  
<210> 45  
<211> 462  
<212> PRT  
<213> Homo sapiens  
  
<400> 45  
Met Ala Ser Asn Ser Ser Cys Pro Thr Pro Gly Gly His Leu  
1 5 10 15  
Asn Gly Tyr Pro Val Pro Pro Tyr Ala Phe Phe Phe Pro Pro Met Leu  
20 25 30  
Gly Gly Leu Ser Pro Pro Gly Ala Leu Thr Thr Leu Gln His Gln Leu  
35 40 45  
Pro Val Ser Gly Tyr Ser Thr Pro Ser Pro Ala Thr Ile Glu Thr Gln  
50 55 60  
Ser Ser Ser Ser Glu Glu Ile Val Pro Ser Pro Pro Ser Pro Pro Pro  
65 70 75 80  
Leu Pro Arg Ile Tyr Lys Pro Cys Phe Val Cys Gln Asp Lys Ser Ser  
85 90 95  
Gly Tyr His Tyr Gly Val Ser Ala Cys Glu Gly Cys Lys Gly Phe Phe  
100 105 110  
Arg Arg Ser Ile Gln Lys Asn Met Val Tyr Thr Cys His Arg Asp Lys  
115 120 125  
Asn Cys Ile Ile Asn Lys Val Thr Arg Asn Arg Cys Gln Tyr Cys Arg  
130 135 140  
Leu Gln Lys Cys Phe Glu Val Gly Met Ser Lys Glu Ser Val Arg Asn  
145 150 155 160  
Asp Arg Asn Lys Lys Lys Glu Val Pro Lys Pro Glu Cys Ser Glu  
165 170 175  
Ser Tyr Thr Leu Thr Pro Glu Val Gly Glu Leu Ile Glu Lys Val Arg  
180 185 190  
Lys Ala His Gln Glu Thr Phe Pro Ala Leu Cys Gln Leu Gly Lys Tyr  
195 200 205  
Thr Thr Asn Asn Ser Ser Glu Gln Arg Val Ser Leu Asp Ile Asp Leu  
210 215 220  
Trp Asp Lys Phe Ser Glu Leu Ser Thr Lys Cys Ile Ile Lys Thr Val  
225 230 235 240  
Glu Phe Ala Lys Gln Leu Pro Gly Phe Thr Thr Leu Thr Ile Ala Asp  
245 250 255  
Gln Ile Thr Leu Leu Lys Ala Ala Cys Leu Asp Ile Leu Ile Leu Arg  
260 265 270  
Ile Cys Thr Arg Tyr Thr Pro Glu Gln Asp Thr Met Thr Phe Ser Asp  
275 280 285  
Gly Leu Thr Leu Asn Arg Thr Gln Met His Asn Ala Gly Phe Gly Pro  
290 295 300

Siemens 0022 Seq Listing.txt

Leu Thr Asp Leu Val Phe Ala Phe Ala Asn Gln Leu Leu Pro Leu Glu  
 305 310 315 320  
 Met Asp Asp Ala Glu Thr Gly Leu Leu Ser Ala Ile Cys Leu Ile Cys  
 325 330 335  
 Gly Asp Arg Gln Asp Leu Glu Gln Pro Asp Arg Val Asp Met Leu Gln  
 340 345 350  
 Glu Pro Leu Leu Glu Ala Leu Lys Val Tyr Val Arg Lys Arg Arg Pro  
 355 360 365  
 Ser Arg Pro His Met Phe Pro Lys Met Leu Met Lys Ile Thr Asp Leu  
 370 375 380  
 Arg Ser Ile Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met  
 385 390 395 400  
 Glu Ile Pro Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn  
 405 410 415  
 Ser Glu Gly Leu Asp Thr Leu Ser Gly Gln Pro Gly Gly Gly Arg  
 420 425 430  
 Asp Gly Gly Leu Ala Pro Pro Gly Ser Cys Ser Pro Ser Leu  
 435 440 445  
 Ser Pro Ser Ser Asn Arg Ser Ser Pro Ala Thr His Ser Pro  
 450 455 460  
 <210> 46

<211> 1531

<212> PRT

<213> Homo sapiens

<400> 46  
 Met Glu Val Ser Pro Leu Gln Pro Val Asn Glu Asn Met Gln Val Asn  
 1 5 10 15  
 Lys Ile Lys Lys Asn Glu Asp Ala Lys Lys Arg Leu Ser Val Glu Arg  
 20 25 30  
 Ile Tyr Gln Lys Lys Thr Gln Leu Glu His Ile Leu Leu Arg Pro Asp  
 35 40 45  
 Thr Tyr Ile Gly Ser Val Glu Leu Val Thr Gln Gln Met Trp Val Tyr  
 50 55 60  
 Asp Glu Asp Val Gly Ile Asn Tyr Arg Glu Val Thr Phe Val Pro Gly  
 65 70 75 80  
 Leu Tyr Lys Ile Phe Asp Glu Ile Leu Val Asn Ala Ala Asp Asn Lys  
 85 90 95  
 Gln Arg Asp Pro Lys Met Ser Cys Ile Arg Val Thr Ile Asp Pro Glu  
 100 105 110  
 Asn Asn Leu Ser Ile Trp Asn Asn Gly Lys Gly Ile Pro Val Val  
 115 120 125  
 Glu His Val Glu Lys Met Tyr Val Pro Ala Leu Ile Phe Gly Gln  
 130 135 140  
 Leu Leu Thr Ser Ser Asn Tyr Asp Asp Asp Glu Lys Lys Val Thr Gly  
 145 150 155 160  
 Gly Arg Asn Gly Tyr Gly Ala Lys Leu Cys Asn Ile Phe Ser Thr Lys  
 165 170 175  
 Phe Thr Val Glu Thr Ala Ser Arg Glu Tyr Lys Lys Met Phe Lys Gln  
 180 185 190  
 Thr Trp Met Asp Asn Met Gly Arg Ala Gly Glu Met Glu Leu Lys Pro  
 195 200 205  
 Phe Asn Gly Glu Asp Tyr Thr Cys Ile Thr Phe Gln Pro Asp Leu Ser  
 210 215 220  
 Lys Phe Lys Met Gln Ser Leu Asp Lys Asp Ile Val Ala Leu Met Val  
 225 230 235 240  
 Arg Arg Ala Tyr Asp Ile Ala Gly Ser Thr Lys Asp Val Lys Val Phe  
 245 250 255  
 Leu Asn Gly Asn Lys Leu Pro Val Lys Gly Phe Arg Ser Tyr Val Asp  
 260 265 270

Siemens 0022 Seq Listing.txt

Met Tyr Leu Lys Asp Lys Leu Asp Glu Thr Gly Asn Ser Leu Lys Val  
 275 280 285  
 Ile His Glu Gln Val Asn His Arg Trp Glu Val Cys Leu Thr Met Ser  
 290 295 300  
 Glu Lys Gly Phe Gln Gln Ile Ser Phe Val Asn Ser Ile Ala Thr Ser  
 305 310 315 320  
 Lys Gly Gly Arg His Val Asp Tyr Val Ala Asp Gln Ile Val Thr Lys  
 325 330 335  
 Leu Val Asp Val Val Lys Lys Asn Lys Gly Gly Val Ala Val Lys  
 340 345 350  
 Ala His Gln Val Lys Asn His Met Trp Ile Phe Val Asn Ala Leu Ile  
 355 360 365  
 Glu Asn Pro Thr Phe Asp Ser Gln Thr Lys Glu Asn Met Thr Leu Gln  
 370 375 380  
 Pro Lys Ser Phe Gly Ser Thr Cys Gln Leu Ser Glu Lys Phe Ile Lys  
 385 390 395 400  
 Ala Ala Ile Gly Cys Gly Ile Val Glu Ser Ile Leu Asn Trp Val Lys  
 405 410 415  
 Phe Lys Ala Gln Val Gln Leu Asn Lys Lys Cys Ser Ala Val Lys His  
 420 425 430  
 Asn Arg Ile Lys Gly Ile Pro Lys Leu Asp Asp Ala Asn Asp Ala Gly  
 435 440 445  
 Gly Arg Asn Ser Thr Glu Cys Thr Leu Ile Leu Thr Glu Gly Asp Ser  
 450 455 460  
 Ala Lys Thr Leu Ala Val Ser Gly Leu Gly Val Val Gly Arg Asp Lys  
 465 470 475 480  
 Tyr Gly Val Phe Pro Leu Arg Gly Lys Ile Leu Asn Val Arg Glu Ala  
 485 490 495  
 Ser His Lys Gln Ile Met Glu Asn Ala Glu Ile Asn Asn Ile Ile Lys  
 500 505 510  
 Ile Val Gly Leu Gln Tyr Lys Lys Asn Tyr Glu Asp Glu Asp Ser Leu  
 515 520 525  
 Lys Thr Leu Arg Tyr Gly Lys Ile Met Ile Met Thr Asp Gln Asp Gln  
 530 535 540  
 Asp Gly Ser His Ile Lys Gly Leu Leu Ile Asn Phe Ile His His Asn  
 545 550 555 560  
 Trp Pro Ser Leu Leu Arg His Arg Phe Leu Glu Glu Phe Ile Thr Pro  
 565 570 575  
 Ile Val Lys Val Ser Lys Asn Lys Gln Glu Met Ala Phe Tyr Ser Leu  
 580 585 590  
 Pro Glu Phe Glu Glu Trp Lys Ser Ser Thr Pro Asn His Lys Lys Trp  
 595 600 605  
 Lys Val Lys Tyr Tyr Lys Gly Leu Gly Thr Ser Thr Ser Lys Glu Ala  
 610 615 620  
 Lys Glu Tyr Phe Ala Asp Met Lys Arg His Arg Ile Gln Phe Lys Tyr  
 625 630 635 640  
 Ser Gly Pro Glu Asp Asp Ala Ala Ile Ser Leu Ala Phe Ser Lys Lys  
 645 650 655  
 Gln Ile Asp Asp Arg Lys Glu Trp Leu Thr Asn Phe Met Glu Asp Arg  
 660 665 670  
 Arg Gln Arg Lys Leu Leu Gly Leu Pro Glu Asp Tyr Leu Tyr Gly Gln  
 675 680 685  
 Thr Thr Thr Tyr Leu Thr Tyr Asn Asp Phe Ile Asn Lys Glu Leu Ile  
 690 695 700  
 Leu Phe Ser Asn Ser Asp Asn Glu Arg Ser Ile Pro Ser Met Val Asp  
 705 710 715 720  
 Gly Leu Lys Pro Gly Gln Arg Lys Val Leu Phe Thr Cys Phe Lys Arg  
 725 730 735  
 Asn Asp Lys Arg Glu Val Lys Val Ala Gln Leu Ala Gly Ser Val Ala  
 740 745 750  
 Glu Met Ser Ser Tyr His His Gly Glu Met Ser Leu Met Met Thr Ile  
 755 760 765  
 Ile Asn Leu Ala Gln Asn Phe Val Gly Ser Asn Asn Leu Asn Leu Leu

## Siemens 0022 Seq Listing.txt

770	775	780
Gln Pro Ile Gly Gln Phe Gly Thr Arg Leu His	Gly Gly Lys Asp Ser	
785	790	795
Ala Ser Pro Arg Tyr Ile Phe Thr Met Leu Ser	Ser Ser Leu Ala Arg	Leu
805	810	815
Leu Phe Pro Pro Lys Asp Asp His	Thr Leu Lys Phe Leu Tyr	Asp Asp
820	825	830
Asn Gln Arg Val Glu Pro Glu Trp Tyr Ile Pro	Ile Ile Pro Met Val	
835	840	845
Leu Ile Asn Gly Ala Glu Gly Ile Gly Thr	Gly Trp Ser Cys Lys Ile	
850	855	860
Pro Asn Phe Asp Val Arg Glu Ile Val Asn	Asn Ile Arg Arg	Leu Met
865	870	875
Asp Gly Glu Glu Pro Leu Pro Met Leu Pro	Ser Tyr Lys Asn Phe	Lys
885	890	895
Gly Thr Ile Glu Glu Leu Ala Pro Asn	Gln Tyr Val Ile Ser	Gly Glu
900	905	910
Val Ala Ile Leu Asn Ser Thr Thr Ile Glu	Ile Ser Glu Leu Pro	Val
915	920	925
Arg Thr Trp Thr Gln Thr Tyr Lys Glu Gln	Val Leu Glu Pro Met	Leu
930	935	940
Asn Gly Thr Glu Lys Thr Pro Pro Leu Ile	Thr Asp Tyr Arg Glu	Tyr
945	950	955
His Thr Asp Thr Thr Val Lys Phe Val Val	Lys Met Thr Glu Glu	Lys
965	970	975
Leu Ala Glu Ala Glu Arg Val Gly	Leu His Lys Val Phe	Lys Leu Gln
980	985	990
Thr Ser Leu Thr Cys Asn Ser Met Val	Leu Phe Asp His Val	Gly Cys
995	1000	1005
Leu Lys Lys Tyr Asp Thr Val	Leu Asp Ile Leu Arg	Asp Phe Phe
1010	1015	1020
Glu Leu Arg Leu Lys Tyr	Tyr Gly Leu Arg Lys	Glu Trp Leu Leu
1025	1030	1035
Gly Met Leu Gly Ala Glu Ser	Ala Lys Leu Asn	Asn Gln Ala Arg
1040	1045	1050
Phe Ile Leu Glu Lys Ile Asp	Gly Lys Ile Ile	Ile Glu Asn Lys
1055	1060	1065
Pro Lys Lys Glu Leu Ile Lys	Val Leu Ile Gln Arg	Gly Tyr Asp
1070	1075	1080
Ser Asp Pro Val Lys Ala	Trp Lys Glu Ala Gln	Gln Lys Val Pro
1085	1090	1095
Asp Glu Glu Glu Asn Glu	Ser Asp Asn Glu	Lys Glu Thr Glu
1100	1105	1110
Lys Ser Asp Ser Val Thr Asp	Ser Gly Pro Thr Phe	Asn Tyr Leu
1115	1120	1125
Leu Asp Met Pro Leu Trp Tyr	Leu Thr Lys Glu	Lys Lys Asp Glu
1130	1135	1140
Leu Cys Arg Leu Arg Asn	Glu Lys Glu Gln Glu	Leu Asp Thr Leu
1145	1150	1155
Lys Arg Lys Ser Pro Ser Asp	Leu Trp Lys Glu	Asp Leu Ala Thr
1160	1165	1170
Phe Ile Glu Glu Leu Glu Ala	Val Glu Ala Lys	Glu Lys Gln Asp
1175	1180	1185
Glu Gln Val Gly Leu Pro	Gly Lys Gly Lys	Ala Lys Gly Lys
1190	1195	1200
Lys Thr Gln Met Ala Glu	Val Leu Pro Ser Pro	Arg Gly Gln Arg
1205	1210	1215
Val Ile Pro Arg Ile Thr	Ile Glu Met Lys Ala	Glu Ala Glu Lys
1220	1225	1230
Lys Asn Lys Lys Lys Ile	Lys Asn Glu Asn Thr	Glu Gly Ser Pro
1235	1240	1245
Gln Glu Asp Gly Val Glu	Leu Glu Gly Leu Lys	Gln Arg Leu Glu
1250	1255	1260

Siemens 0022 Seq Listing.txt

Lys	Lys	Gln	Lys	Arg	Glu	Pro	Gly	Thr	Lys	Thr	Lys	Gln	Thr	
1265						1270			1275					
Thr	Leu	Ala	Phe	Lys	Pro	Ile	Lys	Lys	Gly	Lys	Lys	Arg	Asn	Pro
1280						1285			1290					
Trp	Ser	Asp	Ser	Glu	Ser	Asp	Arg	Ser	Ser	Asp	Glu	Ser	Asn	Phe
1295						1300			1305					
Asp	Val	Pro	Pro	Arg	Glu	Thr	Glu	Pro	Arg	Arg	Ala	Ala	Thr	Lys
1310						1315			1320					
Thr	Lys	Phe	Thr	Met	Asp	Leu	Asp	Ser	Asp	Glu	Asp	Phe	Ser	Asp
1325						1330			1335					
Phe	Asp	Glu	Lys	Thr	Asp	Asp	Glu	Asp	Phe	Val	Pro	Ser	Asp	Ala
1340						1345			1350					
Ser	Pro	Pro	Lys	Thr	Lys	Thr	Ser	Pro	Lys	Leu	Ser	Asn	Lys	Glu
1355						1360			1365					
Leu	Lys	Pro	Gln	Lys	Ser	Val	Val	Ser	Asp	Leu	Glu	Ala	Asp	Asp
1370						1375			1380					
Val	Lys	Gly	Ser	Val	Pro	Leu	Ser	Ser	Ser	Pro	Pro	Ala	Thr	His
1385						1390			1395					
Phe	Pro	Asp	Glu	Thr	Glu	Ile	Thr	Asn	Pro	Val	Pro	Lys	Lys	Asn
1400						1405			1410					
Val	Thr	Val	Lys	Lys	Thr	Ala	Ala	Lys	Ser	Gln	Ser	Ser	Thr	Ser
1415						1420			1425					
Thr	Thr	Gly	Ala	Lys	Lys	Arg	Ala	Ala	Pro	Lys	Gly	Thr	Lys	Arg
1430						1435			1440					
Asp	Pro	Ala	Leu	Asn	Ser	Gly	Val	Ser	Gln	Lys	Pro	Asp	Pro	Ala
1445						1450			1455					
Lys	Thr	Lys	Asn	Arg	Arg	Lys	Arg	Lys	Pro	Ser	Thr	Ser	Asp	Asp
1460						1465			1470					
Ser	Asp	Ser	Asn	Phe	Glu	Lys	Ile	Val	Ser	Lys	Ala	Val	Thr	Ser
1475						1480			1485					
Lys	Lys	Ser	Lys	Gly	Glu	Ser	Asp	Asp	Phe	His	Met	Asp	Phe	Asp
1490						1495			1500					
Ser	Ala	Val	Ala	Pro	Arg	Ala	Lys	Ser	Val	Arg	Ala	Lys	Lys	Pro
1505						1510			1515					
Ile	Lys	Tyr	Leu	Glu	Glu	Ser	Asp	Glu	Asp	Asp	Leu	Phe		
1520						1525			1530					

<210> 47

<211> 258

<212> PRT

<213> Homo sapiens

<400> 47

Met	Leu	Pro	Leu	Cys	Leu	Val	Ala	Ala	Leu	Leu	Leu	Ala	Gly	Pro	
1				5		10			15						
Gly	Pro	Ser	Leu	Gly	Asp	Glu	Ala	Ile	His	Cys	Pro	Pro	Cys	Ser	Glu
				20		25			30						
Glu	Lys	Leu	Ala	Arg	Cys	Arg	Pro	Pro	Val	Gly	Cys	Glu	Glu	Leu	Val
				35		40			45						
Arg	Glu	Pro	Gly	Cys	Gly	Cys	Cys	Ala	Thr	Cys	Ala	Leu	Gly	Leu	Gly
				50		55			60						
Met	Pro	Cys	Gly	Val	Tyr	Thr	Pro	Arg	Cys	Gly	Ser	Gly	Leu	Arg	Cys
65					70				75			80			
Tyr	Pro	Pro	Arg	Gly	Val	Glu	Lys	Pro	Leu	His	Thr	Leu	Met	His	Gly
						85			90			95			
Gln	Gly	Val	Cys	Met	Glu	Leu	Ala	Glu	Ile	Glu	Ala	Ile	Gln	Glu	Ser
					100			105			110				
Leu	Gln	Pro	Ser	Asp	Lys	Asp	Gly	Asp	His	Pro	Asn	Asn	Ser	Phe	
					115			120			125				
Ser	Pro	Cys	Ser	Ala	His	Asp	Arg	Arg	Cys	Leu	Gln	Lys	His	Phe	Ala
					130			135			140				

Siemens 0022 Seq Listing.txt

Lys Ile Arg Asp Arg Ser Thr Ser Gly Gly Lys Met Lys Val Asn Gly  
 145 150 155 160  
 Ala Pro Arg Glu Asp Ala Arg Pro Val Pro Gln Gly Ser Cys Gln Ser  
 165 170 175  
 Glu Leu His Arg Ala Leu Glu Arg Leu Ala Ala Ser Gln Ser Arg Thr  
 180 185 190  
 His Glu Asp Leu Tyr Ile Ile Pro Ile Pro Asn Cys Asp Arg Asn Gly  
 195 200 205  
 Asn Phe His Pro Lys Gln Cys His Pro Ala Leu Asp Gly Gln Arg Gly  
 210 215 220  
 Lys Cys Trp Cys Val Asp Arg Lys Thr Gly Val Lys Leu Pro Gly Gly  
 225 230 235 240  
 Leu Glu Pro Lys Gly Glu Leu Asp Cys His Gln Leu Ala Asp Ser Phe  
 245 250 255  
 Arg Glu

<210> 48

<211> 378

<212> PRT

<213> Homo sapiens

<400> 48

Met Asp Leu Gly Lys Pro Met Lys Ser Val Leu Val Val Ala Leu Leu  
 1 5 10 15  
 Val Ile Phe Gln Val Cys Leu Cys Gln Asp Glu Val Thr Asp Asp Tyr  
 20 25 30  
 Ile Gly Asp Asn Thr Thr Val Asp Tyr Thr Leu Phe Glu Ser Leu Cys  
 35 40 45  
 Ser Lys Lys Asp Val Arg Asn Phe Lys Ala Trp Phe Leu Pro Ile Met  
 50 55 60  
 Tyr Ser Ile Ile Cys Phe Val Gly Leu Leu Gly Asn Gly Leu Val Val  
 65 70 75 80  
 Leu Thr Tyr Ile Tyr Phe Lys Arg Leu Lys Thr Met Thr Asp Thr Tyr  
 85 90 95  
 Leu Leu Asn Leu Ala Val Ala Asp Ile Leu Phe Leu Leu Thr Leu Pro  
 100 105 110  
 Phe Trp Ala Tyr Ser Ala Ala Lys Ser Trp Val Phe Gly Val His Phe  
 115 120 125  
 Cys Lys Leu Ile Phe Ala Ile Tyr Lys Met Ser Phe Phe Ser Gly Met  
 130 135 140  
 Leu Leu Leu Cys Ile Ser Ile Asp Arg Tyr Val Ala Ile Val Gln  
 145 150 155 160  
 Ala Val Ser Ala His Arg His Arg Ala Arg Val Leu Leu Ile Ser Lys  
 165 170 175  
 Leu Ser Cys Val Gly Ile Trp Ile Leu Ala Thr Val Leu Ser Ile Pro  
 180 185 190  
 Glu Leu Leu Tyr Ser Asp Leu Gln Arg Ser Ser Ser Glu Gln Ala Met  
 195 200 205  
 Arg Cys Ser Leu Ile Thr Glu His Val Glu Ala Phe Ile Thr Ile Gln  
 210 215 220  
 Val Ala Gln Met Val Ile Gly Phe Leu Val Pro Leu Leu Ala Met Ser  
 225 230 235 240  
 Phe Cys Tyr Leu Val Ile Ile Arg Thr Leu Leu Gln Ala Arg Asn Phe  
 245 250 255  
 Glu Arg Asn Lys Ala Ile Lys Val Ile Ile Ala Val Val Val Phe  
 260 265 270  
 Ile Val Phe Gln Leu Pro Tyr Asn Gly Val Val Leu Ala Gln Thr Val  
 275 280 285  
 Ala Asn Phe Asn Ile Thr Ser Ser Thr Cys Glu Leu Ser Lys Gln Leu  
 290 295 300

Siemens 0022 Seq Listing.txt

Asn Ile Ala Tyr Asp Val Thr Tyr Ser Leu Ala Cys Val Arg Cys Cys  
305 310 315 320  
Val Asn Pro Phe Leu Tyr Ala Phe Ile Gly Val Lys Phe Arg Asn Asp  
325 330 335  
Leu Phe Lys Leu Phe Lys Asp Leu Gly Cys Leu Ser Gln Glu Gln Leu  
340 345 350  
Arg Gln Trp Ser Ser Cys Arg His Ile Arg Arg Ser Ser Met Ser Val  
355 360 365  
Glu Ala Glu Thr Thr Thr Phe Ser Pro  
370 375  
<210> 49

<211> 411

<212> PRT

<213> Homo sapiens

<400> 49  
Met Ser Lys Arg Pro Ser Tyr Ala Pro Pro Pro Thr Pro Ala Pro Ala  
1 5 10 15  
Thr Gln Met Pro Ser Thr Pro Gly Phe Val Gly Tyr Asn Pro Tyr Ser  
20 25 30  
His Leu Ala Tyr Asn Asn Tyr Arg Leu Gly Gly Asn Pro Ser Thr Asn  
35 40 45  
Ser Arg Val Thr Ala Ser Ser Gly Ile Thr Ile Pro Lys Pro Pro Lys  
50 55 60  
Pro Pro Asp Lys Pro Leu Met Pro Tyr Met Arg Tyr Ser Arg Lys Val  
65 70 75 80  
Trp Asp Gln Val Lys Ala Ser Asn Pro Asp Leu Lys Leu Trp Glu Ile  
85 90 95  
Gly Lys Ile Ile Gly Gly Met Trp Arg Asp Leu Thr Asp Glu Glu Lys  
100 105 110  
Gln Glu Tyr Leu Asn Glu Tyr Glu Ala Glu Lys Ile Glu Tyr Asn Glu  
115 120 125  
Ser Met Lys Ala Tyr His Asn Ser Pro Ala Tyr Leu Ala Tyr Ile Asn  
130 135 140  
Ala Lys Ser Arg Ala Glu Ala Ala Leu Glu Glu Glu Ser Arg Gln Arg  
145 150 155 160  
Gln Ser Arg Met Glu Lys Gly Glu Pro Tyr Met Ser Ile Gln Pro Ala  
165 170 175  
Glu Asp Pro Asp Asp Tyr Asp Asp Gly Phe Ser Met Lys His Thr Ala  
180 185 190  
Thr Ala Arg Phe Gln Arg Asn His Arg Leu Ile Ser Glu Ile Leu Ser  
195 200 205  
Glu Ser Val Val Pro Asp Val Arg Ser Val Val Thr Thr Ala Arg Met  
210 215 220  
Gln Val Leu Lys Arg Gln Val Gln Ser Leu Met Val His Gln Arg Lys  
225 230 235 240  
Leu Glu Ala Glu Leu Leu Gln Ile Glu Glu Arg His Gln Glu Lys Lys  
245 250 255  
Arg Lys Phe Leu Glu Ser Thr Asp Ser Phe Asn Asn Glu Leu Lys Arg  
260 265 270  
Leu Cys Gly Leu Lys Val Glu Val Asp Met Glu Lys Ile Ala Ala Glu  
275 280 285  
Ile Ala Gln Ala Glu Glu Gln Ala Arg Lys Arg Gln Glu Glu Arg Glu  
290 295 300  
Lys Glu Ala Ala Glu Gln Ala Glu Arg Ser Gln Ser Ser Ile Val Pro  
305 310 315 320  
Glu Glu Glu Gln Ala Ala Asn Lys Gly Glu Glu Lys Lys Asp Asp Glu  
325 330 335  
Asn Ile Pro Met Glu Thr Glu Glu Thr His Leu Glu Glu Thr Thr Glu  
340 345 350

Siemens 0022 Seq Listing.txt  
Ser Gln Gln Asn Gly Glu Glu Gly Thr Ser Thr Pro Glu Asp Lys Glu  
355 360 365  
Ser Gly Gln Glu Gly Val Asp Ser Met Ala Glu Glu Gly Thr Ser Asp  
370 375 380  
Ser Asn Thr Gly Ser Glu Ser Asn Ser Ala Thr Val Glu Glu Pro Pro  
385 390 395 400  
Thr Asp Pro Ile Pro Glu Asp Glu Lys Lys Glu  
405 410

<210> 50

<211> 593

<212> PRT

<213> Homo sapiens

<400> 50  
Met Ser Val Arg Tyr Ser Ser Lys His Tyr Ser Ser Arg Ser  
1 5 10 15  
Gly Gly Gly Gly Gly Gly Cys Gly Gly Gly Val Ser  
20 25 30  
Ser Leu Arg Ile Ser Ser Lys Gly Ser Leu Gly Gly Phe Ser  
35 40 45  
Ser Gly Gly Phe Ser Gly Gly Ser Phe Ser Arg Gly Ser Ser Gly Gly  
50 55 60  
Gly Cys Phe Gly Gly Ser Ser Gly Gly Tyr Gly Gly Leu Gly Gly Phe  
65 70 75 80  
Gly Gly Gly Ser Phe His Gly Ser Tyr Gly Ser Ser Ser Phe Gly Gly  
85 90 95  
Ser Tyr Gly Gly Ser Phe Gly Gly Asn Phe Gly Gly Ser Phe  
100 105 110  
Gly Gly Gly Ser Phe Gly Gly Phe Gly Gly Gly Gly Phe Gly  
115 120 125  
Gly Gly Phe Gly Gly Phe Gly Gly Asp Gly Gly Leu Leu Ser Gly  
130 135 140  
Asn Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr  
145 150 155 160  
Leu Asp Lys Val Arg Ala Leu Glu Glu Ser Asn Tyr Glu Leu Glu Gly  
165 170 175  
Lys Ile Lys Glu Trp Tyr Glu Lys His Gly Asn Ser His Gln Gly Glu  
180 185 190  
Pro Arg Asp Tyr Ser Lys Tyr Lys Thr Ile Asp Asp Leu Lys Asn  
195 200 205  
Gln Ile Leu Asn Leu Thr Thr Asp Asn Ala Asn Ile Leu Leu Gln Ile  
210 215 220  
Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Leu Lys Tyr Glu Asn  
225 230 235 240  
Glu Val Ala Leu Arg Gln Ser Val Glu Ala Asp Ile Asn Gly Leu Arg  
245 250 255  
Arg Val Leu Asp Glu Leu Thr Leu Thr Lys Ala Asp Leu Glu Met Gln  
260 265 270  
Ile Glu Ser Leu Thr Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu  
275 280 285  
Glu Glu Met Lys Asp Leu Arg Asn Val Ser Thr Gly Asp Val Asn Val  
290 295 300  
Glu Met Asn Ala Ala Pro Gly Val Asp Leu Thr Gln Leu Leu Asn Asn  
305 310 315 320  
Met Arg Ser Gln Tyr Glu Gln Leu Ala Glu Gln Asn Arg Lys Asp Ala  
325 330 335  
Glu Ala Trp Phe Asn Glu Lys Ser Lys Glu Leu Thr Thr Glu Ile Asp  
340 345 350

Siemens 0022 Seq Listing.txt

Asn Asn Ile Glu Gln Ile Ser Ser Tyr Lys Ser Glu Ile Thr Glu Leu  
355 360 365  
Arg Arg Asn Val Gln Ala Leu Glu Ile Glu Leu Gln Ser Gln Leu Ala  
370 375 380  
Leu Lys Gln Ser Leu Glu Ala Ser Leu Ala Glu Thr Glu Gly Arg Tyr  
385 390 395 400  
Cys Val Gln Leu Ser Gln Ile His Ala Gln Ile Ser Ala Leu Glu Glu  
405 410 415  
Gln Leu Gln Gln Ile Arg Ala Glu Thr Glu Cys Gln Asn Thr Glu Tyr  
420 425 430  
Gln Gln Leu Leu Asp Ile Lys Ile Arg Leu Glu Asn Glu Ile Gln Thr  
435 440 445  
Tyr Arg Ser Leu Leu Glu Gly Glu Gly Ser Ser Gly Gly Gly Arg  
450 455 460  
Gly Gly Gly Ser Phe Gly Gly Tyr Gly Gly Ser Ser Gly Gly  
465 470 475 480  
Gly Ser Ser Gly Gly Tyr Gly Gly His Gly Gly Ser Ser Gly  
485 490 495  
Gly Gly Tyr Gly Gly Ser Ser Gly Gly Ser Ser Gly Gly Gly  
500 505 510  
Tyr Gly Gly Ser Ser Ser Gly Gly His Gly Gly Ser Ser Ser  
515 520 525  
Gly Gly His Gly Gly Ser Ser Gly Gly Tyr Gly Gly Ser Ser  
530 535 540  
Gly Gly Gly Gly Gly Tyr Gly Gly Ser Ser Gly Gly Gly Ser  
545 550 555 560  
Ser Ser Gly Gly Gly Tyr Gly Gly Ser Ser Ser Gly Gly His Lys  
565 570 575  
Ser Ser Ser Ser Gly Ser Val Gly Glu Ser Ser Ser Lys Gly Pro Arg  
580 585 590  
Tyr

<210> 51  
<211> 494  
<212> PRT  
<213> Homo sapiens

<400> 51  
Met Asp Leu Ser Asn Asn Thr Met Ser Leu Ser Val Arg Thr Pro Gly  
1 5 10 15  
Leu Ser Arg Arg Leu Ser Ser Gln Ser Val Ile Gly Arg Pro Arg Gly  
20 25 30  
Met Ser Ala Ser Ser Val Gly Ser Gly Tyr Gly Gly Ser Ala Phe Gly  
35 40 45  
Phe Gly Ala Ser Cys Gly Gly Phe Ser Ala Ala Ser Met Phe Gly  
50 55 60  
Ser Ser Ser Gly Phe Gly Gly Ser Gly Ser Ser Met Ala Gly Gly  
65 70 75 80  
Leu Gly Ala Gly Tyr Gly Arg Ala Leu Gly Gly Ser Phe Gly Gly  
85 90 95  
Leu Gly Met Gly Phe Gly Gly Ser Pro Gly Gly Ser Leu Gly Ile  
100 105 110  
Leu Ser Gly Asn Asp Gly Gly Leu Leu Ser Gly Ser Glu Lys Glu Thr  
115 120 125  
Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg  
130 135 140  
Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Asn Lys Ile Arg Glu Trp  
145 150 155 160

Siemens 0022 Seq Listing.txt

Tyr Glu Thr Arg Gly Thr Gly Thr Ala Asp Ala Ser Gln Ser Asp Tyr  
 165 170 175  
 Ser Lys Tyr Tyr Pro Leu Ile Glu Asp Leu Arg Asn Lys Ile Ile Ser  
 180 185 190  
 Ala Ser Ile Gly Asn Ala Gln Leu Leu Leu Gln Ile Asp Asn Ala Arg  
 195 200 205  
 Leu Ala Ala Glu Asp Phe Arg Met Lys Tyr Glu Asn Glu Leu Ala Leu  
 210 215 220  
 Arg Gln Gly Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp  
 225 230 235 240  
 Glu Leu Thr Leu Thr Arg Thr Asp Leu Glu Met Gln Ile Glu Ser Leu  
 245 250 255  
 Asn Glu Glu Leu Ala Tyr Met Lys Lys Asn His Glu Asp Glu Leu Gln  
 260 265 270  
 Ser Phe Arg Val Gly Gly Pro Gly Glu Val Ser Val Glu Met Asp Ala  
 275 280 285  
 Ala Pro Gly Val Asp Leu Thr Arg Leu Leu Asn Asp Met Arg Ala Gln  
 290 295 300  
 Tyr Glu Thr Ile Ala Glu Gln Asn Arg Lys Asp Ala Glu Ala Trp Phe  
 305 310 315 320  
 Ile Glu Lys Ser Gly Glu Leu Arg Lys Glu Ile Ser Thr Asn Thr Glu  
 325 330 335  
 Gln Leu Gln Ser Ser Lys Ser Glu Val Thr Asp Leu Arg Arg Ala Phe  
 340 345 350  
 Gln Asn Leu Glu Ile Glu Leu Gln Ser Gln Leu Ala Met Lys Lys Ser  
 355 360 365  
 Leu Glu Asp Ser Leu Ala Glu Ala Glu Gly Asp Tyr Cys Ala Gln Leu  
 370 375 380  
 Ser Gln Val Gln Gln Leu Ile Ser Asn Leu Glu Ala Gln Leu Leu Gln  
 385 390 395 400  
 Val Arg Ala Asp Ala Glu Arg Gln Asn Val Asp His Gln Arg Leu Leu  
 405 410 415  
 Asn Val Lys Ala Arg Leu Glu Leu Glu Ile Glu Thr Tyr Arg Arg Leu  
 420 425 430  
 Leu Asp Gly Glu Ala Gln Gly Asp Gly Leu Glu Glu Ser Leu Phe Val  
 435 440 445  
 Thr Asp Ser Lys Ser Gln Ala Gln Ser Thr Asp Ser Ser Lys Asp Pro  
 450 455 460  
 Thr Lys Thr Arg Lys Ile Lys Thr Val Val Gln Glu Met Val Asn Gly  
 465 470 475 480  
 Glu Val Val Ser Ser Gln Val Gln Glu Ile Glu Glu Leu Met  
 485 490

<210> 52

<211> 361

<212> PRT

<213> Homo sapiens

<400> 52

Cys Asn Trp Phe Cys Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr  
 1 5 10 15  
 Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg  
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 His Val Glu Arg Asp Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg  
 35 40 45  
 Ser Gln Gln Gln Glu Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe  
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 Lys Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu  
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Siemens 0022 Seq Listing.txt

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 Asp Phe Arg Thr Lys Tyr Gln Thr Glu Gln Ser Leu Arg Gln Leu Val  
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 Glu Ser Asp Ile Asn Ser Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu  
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 Cys Arg Ser Asp Leu Glu Ala Gln Met Glu Ser Leu Lys Glu Glu Leu  
                   130             135             140  
 Leu Ser Leu Lys Gln Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys  
                   145             150             155             160  
 Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp Ala Ala Pro Ala Val  
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 Asp Leu Asn Gln Val Leu Asn Glu Thr Arg Asn Gln Tyr Glu Ala Leu  
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 Val Glu Thr Asn Arg Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr  
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 Tyr Gln Ala Glu Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu  
                   225             230             235             240  
 Ile Glu Leu Gln Ala Gln His Asn Leu Arg Tyr Ser Leu Glu Asn Thr  
                   245             250             255  
 Leu Thr Glu Ser Glu Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln  
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 Ser Leu Ile Thr Asn Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp  
                   275             280             285  
 Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala  
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 Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu  
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 Asp Cys Lys Leu Pro Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Glu  
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 <213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 4283

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 6140

<212> DNA

<213> Homo sapiens

<400> 56

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2098

<212> DNA

<213> Homo sapiens

<400> 57

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Siemens 0022 Seq Listing.txt

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<211> 2947

<212> DNA

<213> Homo sapiens

<400> 58

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Siemens 0022 Seq Listing.txt

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<211> 784

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2341

<212> DNA

<213> Homo sapiens

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<211> 2109

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 67

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<211> 2423

<212> DNA

<213> Homo sapiens

<400> 68

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Siemens 0022 Seq Listing.txt

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<211> 1841

<212> DNA

<213> Homo sapiens

<400> 69

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Siemens 0022 Seq Listing.txt

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<211> 748

<212> DNA

<213> Homo sapiens

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<211> 795

<212> DNA

<213> Homo sapiens

<400> 71

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<211> 2356

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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## Siemens 0022 Seq Listing.txt

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 Thr Gln Gln Glu Lys His Pro Thr His His Glu Arg Gly Gln Lys Lys  
 225 230 235 240  
 Ser Arg Lys Asp Lys Glu Arg Leu Lys Gln Lys His Lys Lys Arg Pro  
 245 250 255  
 Glu Ser Pro Pro Ser Ile Leu Thr Pro Pro Val Val Pro Thr Ala Asp  
 260 265 270  
 Lys Val Ser Ser Ser Ala Ser Ser Ser His His Glu Ala Ser Thr  
 275 280 285  
 Gln Glu Thr Ser Glu Ser Ser Arg Glu Ser Lys Gly Lys Lys Ser Ser  
 290 295 300  
 Ser His Ser Leu Ser His Lys Gly Lys Lys Leu Ser Ser Gly Lys Gly  
 305 310 315 320  
 Val Ser Ser Phe Thr Ser Ala Ser Ser Ser Ser Ser Ser Ser Ser  
 325 330 335  
 Ser Ser Gly Gly Pro Phe Gln Pro Ala Val Ser Ser Leu Gln Ser Ser  
 340 345 350  
 Pro Asp Phe Ser Ala Phe Pro Lys Leu Glu Gln Pro Glu Glu Asp Lys  
 355 360 365  
 Tyr Ser Lys Pro Thr Ala Pro Ala Pro Ser Ala Pro Pro Ser Pro Ser  
 370 375 380  
 Ala Pro Glu Pro Pro Lys Ala Asp Leu Phe Glu Gln Lys Val Val Phe  
 385 390 395 400  
 Ser Gly Phe Gly Pro Ile Met Arg Phe Ser Thr Thr Thr Ser Ser Ser  
 405 410 415  
 Gly Arg Ala Arg Ala Pro Ser Pro Gly Asp Tyr Lys Ser Pro His Val  
 420 425 430  
 Thr Gly Ser Gly Ala Ser Ala Gly Thr His Lys Arg Met Pro Ala Leu  
 435 440 445  
 Ser Ala Thr Pro Val Pro Ala Asp Glu Thr Pro Glu Thr Gly Leu Lys  
 450 455 460  
 Glu Lys Lys His Lys Ala Ser Lys Arg Ser Arg His Gly Pro Gly Arg  
 465 470 475 480  
 Pro Lys Gly Ser Arg Asn Lys Glu Gly Thr Gly Gly Pro Ala Ala Pro  
 485 490 495  
 Ser Leu Pro Ser Ala Gln Leu Ala Gly Phe Thr Ala Thr Ala Ala Ser  
 500 505 510  
 Pro Phe Ser Gly Gly Ser Leu Val Ser Ser Gly Leu Gly Gly Leu Ser  
 515 520 525  
 Ser Arg Thr Phe Gly Pro Ser Gly Ser Leu Pro Ser Leu Ser Leu Glu  
 530 535 540  
 Ser Pro Leu Leu Gly Ala Gly Ile Tyr Thr Ser Asn Lys Asp Pro Ile  
 545 550 555 560  
 Ser His Ser Gly Gly Met Leu Arg Ala Val Cys Ser Thr Pro Leu Ser  
 565 570 575  
 Ser Ser Leu Leu Gly Pro Pro Gly Thr Ser Ala Leu Pro Arg Leu Ser  
 580 585 590  
 Arg Ser Pro Phe Thr Ser Thr Leu Pro Ser Ser Ser Ala Ser Ile Ser  
 595 600 605  
 Thr Thr Gln Val Phe Ser Leu Ala Gly Ser Thr Phe Ser Leu Pro Ser

## Siemens 0022 Seq Listing.txt

610	615	620
Thr His Ile Phe Gly Thr Pro Met Gly Ala Val Asn Pro Leu Leu Ser		
625	630	635
Gln Ala Glu Ser Ser His Thr Glu Pro Asp Leu Glu Asp Cys Ser Phe		640
	645	650
Arg Cys Arg Gly Thr Ser Pro Gln Glu Ser Leu Ser Ser Met Ser Pro		655
	660	665
Ile Ser Ser Leu Pro Ala Leu Phe Asp Gln Thr Ala Ser Ala Pro Cys		670
	675	680
Gly Gly Gln Leu Asp Pro Ala Ala Pro Gly Thr Thr Asn Met Glu		685
	690	695
Gln Leu Leu Glu Lys Gln Gly Asp Gly Glu Ala Gly Val Asn Ile Val		700
	705	710
Glu Met Leu Lys Ala Leu His Ala Leu Gln Lys Glu Asn Gln Arg Leu		715
	725	730
Gln Glu Gln Ile Leu Ser Leu Thr Ala Lys Lys Glu Arg Leu Gln Ile		720
	740	745
Leu Asn Val Gln Leu Ser Val Pro Phe Pro Ala Leu Pro Ala Ala Leu		750
	755	760
Pro Ala Ala Asn Gly Pro Val Pro Gly Pro Tyr Gly Leu Pro Pro Gln		765
	770	775
Ala Gly Ser Ser Asp Ser Leu Ser Thr Ser Lys Ser Pro Pro Gly Lys		780
	785	790
Ser Ser Leu Gly Leu Asp Asn Ser Leu Ser Thr Ser Ser Glu Asp Pro		795
	805	810
His Ser Gly Cys Pro Ser Arg Ser Ser Ser Leu Ser Phe His Ser		815
	820	825
Thr Pro Pro Pro Leu Pro Leu Leu Gln Gln Ser Pro Ala Thr Leu Pro		830
	835	840
Leu Ala Leu Pro Gly Ala Pro Ala Pro Leu Pro Pro Gln Pro Gln Asn		845
	850	855
Gly Leu Gly Arg Ala Pro Gly Ala Ala Gly Leu Gly Ala Met Pro Met		860
	865	870
Ala Glu Gly Leu Leu Gly Gly Leu Ala Gly Ser Gly Gly Leu Pro Leu		875
	885	890
Asn Gly Leu Leu Gly Gly Leu Asn Gly Ala Ala Ala Pro Asn Pro Ala		880
	900	905
Ser Leu Ser Gln Ala Gly Gly Ala Pro Thr Leu Gln Leu Pro Gly Cys		910
	915	920
Leu Asn Ser Leu Thr Glu Gln Gln Arg His Leu Leu Gln Gln Gln Glu		925
	930	935
Gln Gln Leu Gln Gln Leu Gln Gln Leu Ala Ser Pro Gln Leu Thr		940
	945	950
Pro Glu His Gln Thr Val Val Tyr Gln Met Ile Gln Gln Ile Gln Gln		955
	965	970
Lys Arg Glu Leu Gln Arg Leu Gln Met Ala Gly Gly Ser Gln Leu Pro		960
	980	985
Met Ala Ser Leu Leu Ala Gly Ser Ser Thr Pro Leu Leu Ser Ala Gly		990
	995	1000
Thr Pro Gly Leu Leu Pro Thr Ala Ser Ala Pro Pro Leu Leu Pro		1005
	1010	1015
Ala Gly Ala Leu Val Ala Pro Ser Leu Gly Asn Asn Thr Ser Leu		1020
	1025	1030
Met Ala Ala Ala Ala Ala Ala Ala Val Ala Ala Gly Gly		1035
	1040	1045
Pro Pro Val Leu Thr Ala Gln Thr Asn Pro Phe Leu Ser Leu Ser		1050
	1055	1060
Gly Ala Glu Gly Ser Gly Gly Pro Lys Gly Gly Thr Ala Asp		1065
	1070	1075
Lys Gly Ala Ser Ala Asn Gln Glu Lys Gly		1080
	1085	1090

Siemens 0022 Seq Listing.txt

<211> 344

<212> PRT

<213> Homo sapiens

<400> 77  
Met His Arg Thr Thr Arg Ile Lys Ile Thr Glu Leu Asn Pro His Leu  
1 5 10 15  
Met Cys Ala Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Val  
20 25 30  
Glu Cys Leu His Ser Phe Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu  
35 40 45  
Thr Asn Lys Tyr Cys Pro Met Cys Asp Val Gln Val His Lys Thr Arg  
50 55 60  
Pro Leu Leu Ser Ile Arg Ser Asp Lys Thr Leu Gln Asp Ile Val Tyr  
65 70 75 80  
Lys Leu Val Pro Gly Leu Phe Lys Asp Glu Met Lys Arg Arg Arg Asp  
85 90 95  
Phe Tyr Ala Ala Tyr Pro Leu Thr Glu Val Pro Asn Gly Ser Asn Glu  
100 105 110  
Asp Arg Gly Glu Val Leu Glu Gln Glu Lys Gly Ala Leu Ser Asp Asp  
115 120 125  
Glu Ile Val Ser Leu Ser Ile Glu Phe Tyr Glu Gly Ala Arg Asp Arg  
130 135 140  
Asp Glu Lys Lys Gly Pro Leu Glu Asn Gly Asp Gly Asp Lys Glu Lys  
145 150 155 160  
Thr Gly Val Arg Phe Leu Arg Cys Pro Ala Ala Met Thr Val Met His  
165 170 175  
Leu Ala Lys Phe Leu Arg Asn Lys Met Asp Val Pro Ser Lys Tyr Lys  
180 185 190  
Val Glu Val Leu Tyr Glu Asp Glu Pro Leu Lys Glu Tyr Tyr Thr Leu  
195 200 205  
Met Asp Ile Ala Tyr Ile Tyr Pro Trp Arg Arg Asn Gly Pro Leu Pro  
210 215 220  
Leu Lys Tyr Arg Val Gln Pro Ala Cys Lys Arg Leu Thr Leu Ala Thr  
225 230 235 240  
Val Pro Thr Pro Ser Glu Gly Thr Asn Thr Ser Gly Ala Ser Glu Cys  
245 250 255  
Glu Ser Val Ser Asp Lys Ala Pro Ser Pro Ala Thr Leu Pro Ala Thr  
260 265 270  
Ser Ser Ser Leu Pro Ser Pro Ala Thr Pro Ser His Gly Ser Pro Ser  
275 280 285  
Ser His Gly Pro Pro Ala Thr His Pro Thr Ser Pro Thr Pro Pro Ser  
290 295 300  
Thr Ala Ser Gly Ala Thr Thr Ala Ala Asn Gly Gly Ser Leu Asn Cys  
305 310 315 320  
Leu Gln Thr Pro Ser Ser Thr Ser Arg Gly Arg Lys Met Thr Val Asn  
325 330 335  
Gly Ala Pro Val Pro Pro Leu Thr  
340

<210> 78

<211> 416

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 78

Met Ser Ser Asn Cys Thr Ser Thr Thr Ala Val Ala Val Ala Pro Leu  
 1 5 10 15  
 Ser Ala Ser Lys Thr Lys Thr Lys Lys His Phe Val Cys Gln Lys  
 20 25 30  
 Val Lys Leu Phe Arg Ala Ser Glu Pro Ile Leu Ser Val Leu Met Trp  
 35 40 45  
 Gly Val Asn His Thr Ile Asn Glu Leu Ser Asn Val Pro Val Pro Val  
 50 55 60  
 Met Leu Met Pro Asp Asp Phe Lys Ala Tyr Ser Lys Ile Lys Val Asp  
 65 70 75 80  
 Asn His Leu Phe Asn Lys Glu Asn Leu Pro Ser Arg Phe Lys Phe Lys  
 85 90 95  
 Glu Tyr Cys Pro Met Val Phe Arg Asn Leu Arg Glu Arg Phe Gly Ile  
 100 105 110  
 Asp Asp Gln Asp Tyr Gln Asn Ser Val Thr Arg Ser Ala Pro Ile Asn  
 115 120 125  
 Ser Asp Ser Gln Gly Arg Cys Gly Thr Arg Phe Leu Thr Thr Tyr Asp  
 130 135 140  
 Arg Arg Phe Val Ile Lys Thr Val Ser Ser Glu Asp Val Ala Glu Met  
 145 150 155 160  
 His Asn Ile Leu Lys Lys Tyr His Gln Phe Ile Val Glu Cys His Gly  
 165 170 175  
 Asn Thr Leu Leu Pro Gln Phe Leu Gly Met Tyr Arg Leu Thr Val Asp  
 180 185 190  
 Gly Val Glu Thr Tyr Met Val Val Thr Arg Asn Val Phe Ser His Arg  
 195 200 205  
 Leu Thr Val His Arg Lys Tyr Asp Leu Lys Gly Ser Thr Val Ala Arg  
 210 215 220  
 Glu Ala Ser Asp Lys Glu Lys Ala Lys Asp Leu Pro Thr Phe Lys Asp  
 225 230 235 240  
 Asn Asp Phe Leu Asn Glu Gly Gln Lys Leu His Val Gly Glu Ser  
 245 250 255  
 Lys Lys Asn Phe Leu Glu Lys Leu Lys Arg Asp Val Glu Phe Leu Ala  
 260 265 270  
 Gln Leu Lys Ile Met Asp Tyr Ser Leu Leu Val Gly Ile His Asp Val  
 275 280 285  
 Asp Arg Ala Glu Gln Glu Glu Met Glu Val Glu Glu Arg Ala Glu Asp  
 290 295 300  
 Glu Glu Cys Glu Asn Asp Gly Val Gly Gly Asn Leu Leu Cys Ser Tyr  
 305 310 315 320  
 Gly Thr Pro Pro Asp Ser Pro Gly Asn Leu Leu Ser Phe Pro Arg Phe  
 325 330 335  
 Phe Gly Pro Gly Glu Phe Asp Pro Ser Val Asp Val Tyr Ala Met Lys  
 340 345 350  
 Ser His Glu Ser Ser Pro Lys Lys Glu Val Tyr Phe Met Ala Ile Ile  
 355 360 365  
 Asp Ile Leu Thr Pro Tyr Asp Thr Lys Lys Lys Ala Ala His Ala Ala  
 370 375 380  
 Lys Thr Val Lys His Gly Ala Gly Ala Glu Ile Ser Thr Val Asn Pro  
 385 390 395 400  
 Glu Gln Tyr Ser Lys Arg Phe Asn Glu Phe Met Ser Asn Ile Leu Thr  
 405 410 415

<210> 79

<211> 500

<212> PRT

<213> Homo sapiens

## Siemens 0022 Seq Listing.txt

<400> 79  
Met Arg Gly Glu Leu Trp Leu Leu Val Leu Val Leu Arg Glu Ala Ala  
1 5 10 15  
Arg Ala Leu Ser Pro Gln Pro Gly Ala Gly His Asp Glu Gly Pro Gly  
20 25 30  
Ser Gly Trp Ala Ala Lys Gly Thr Val Arg Gly Trp Asn Arg Arg Ala  
35 40 45  
Arg Glu Ser Pro Gly His Val Ser Glu Pro Asp Arg Thr Gln Leu Ser  
50 55 60  
Gln Asp Leu Gly Gly Thr Leu Ala Met Asp Thr Leu Pro Asp Asn  
65 70 75 80  
Arg Thr Arg Val Val Glu Asp Asn His Ser Tyr Tyr Val Ser Arg Leu  
85 90 95  
Tyr Gly Pro Ser Glu Pro His Ser Arg Glu Leu Trp Val Asp Val Ala  
100 105 110  
Glu Ala Asn Arg Ser Gln Val Lys Ile His Thr Ile Leu Ser Asn Thr  
115 120 125  
His Arg Gln Ala Ser Arg Val Val Leu Ser Phe Asp Phe Pro Phe Tyr  
130 135 140  
Gly His Pro Leu Arg Gln Ile Thr Ile Ala Thr Gly Phe Ile Phe  
145 150 155 160  
Met Gly Asp Val Ile His Arg Met Leu Thr Ala Thr Gln Tyr Val Ala  
165 170 175  
Pro Leu Met Ala Asn Phe Asn Pro Gly Tyr Ser Asp Asn Ser Thr Val  
180 185 190  
Val Tyr Phe Asp Asn Gly Thr Val Phe Val Val Gln Trp Asp His Val  
195 200 205  
Tyr Leu Gln Gly Trp Glu Asp Lys Gly Ser Phe Thr Phe Gln Ala Ala  
210 215 220  
Leu His His Asp Gly Arg Ile Val Phe Ala Tyr Lys Glu Ile Pro Met  
225 230 235 240  
Ser Val Pro Glu Ile Ser Ser Ser Gln His Pro Val Lys Thr Gly Leu  
245 250 255  
Ser Asp Ala Phe Met Ile Leu Asn Pro Ser Pro Asp Val Pro Glu Ser  
260 265 270  
Arg Arg Arg Ser Ile Phe Glu Tyr His Arg Ile Glu Leu Asp Pro Ser  
275 280 285  
Lys Val Thr Ser Met Ser Ala Val Glu Phe Thr Pro Leu Pro Thr Cys  
290 295 300  
Leu Gln His Arg Ser Cys Asp Ala Cys Met Ser Ser Asp Leu Thr Phe  
305 310 315 320  
Asn Cys Ser Trp Cys His Val Leu Gln Arg Cys Ser Ser Gly Phe Asp  
325 330 335  
Arg Tyr Arg Gln Glu Trp Met Asp Tyr Gly Cys Ala Gln Glu Ala Glu  
340 345 350  
Gly Arg Met Cys Glu Asp Phe Gln Asp Glu Asp His Asp Ser Ala Ser  
355 360 365  
Pro Asp Thr Ser Phe Ser Pro Tyr Asp Gly Asp Leu Thr Thr Thr Ser  
370 375 380  
Ser Ser Leu Phe Ile Asp Ser Leu Thr Thr Glu Asp Asp Thr Lys Leu  
385 390 395 400  
Asn Pro Tyr Ala Gly Gly Asp Gly Leu Gln Asn Asn Leu Ser Pro Lys  
405 410 415  
Thr Lys Gly Thr Pro Val His Leu Gly Thr Ile Val Gly Ile Val Leu  
420 425 430  
Ala Val Leu Leu Val Ala Ala Ile Ile Leu Ala Gly Ile Tyr Ile Asn  
435 440 445  
Gly His Pro Thr Ser Asn Ala Ala Leu Phe Phe Ile Glu Arg Arg Pro  
450 455 460  
His His Trp Pro Ala Met Lys Phe Arg Ser His Pro Asp His Ser Thr  
465 470 475 480  
Tyr Ala Glu Val Glu Pro Ser Gly His Glu Lys Glu Gly Phe Met Glu  
485 490 495

Siemens 0022 Seq Listing.txt

Ala Glu Gln Cys  
500

<210> 80

<211> 509

<212> PRT

<213> Homo sapiens

<400> 80  
 Met Glu Asp Ile Gln Thr Asn Ala Glu Leu Lys Ser Thr Gln Glu Gln  
 1 5 10 15  
 Ser Val Pro Ala Glu Ser Ala Ala Val Leu Asn Asp Tyr Ser Leu Thr  
 20 25 30  
 Lys Ser His Glu Met Glu Asn Val Asp Ser Gly Glu Gly Pro Ala Asn  
 35 40 45  
 Glu Asp Glu Asp Ile Gly Asp Asp Ser Met Lys Val Lys Asp Glu Tyr  
 50 55 60  
 Ser Glu Arg Asp Glu Asn Val Leu Lys Ser Glu Pro Met Gly Asn Ala  
 65 70 75 80  
 Glu Glu Pro Glu Ile Pro Tyr Ser Tyr Ser Arg Glu Tyr Asn Glu Tyr  
 85 90 95  
 Glu Asn Ile Lys Leu Glu Arg His Val Val Ser Phe Asp Ser Ser Arg  
 100 105 110  
 Pro Thr Ser Gly Lys Met Asn Cys Asp Val Cys Gly Leu Ser Cys Ile  
 115 120 125  
 Ser Phe Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg  
 130 135 140  
 Pro Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn  
 145 150 155 160  
 Leu Leu Arg His Ile Lys Leu His Thr Gly Glu Lys Pro Phe Lys Cys  
 165 170 175  
 His Leu Cys Asn Tyr Ala Cys Gln Arg Arg Asp Ala Leu Thr Gly His  
 180 185 190  
 Leu Arg Thr His Ser Val Glu Lys Pro Tyr Lys Cys Glu Phe Cys Gly  
 195 200 205  
 Arg Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys  
 210 215 220  
 Arg Thr Phe Leu Gln Ser Thr Asp Pro Gly Asp Thr Ala Ser Ala Glu  
 225 230 235 240  
 Ala Arg His Ile Lys Ala Glu Met Gly Ser Glu Arg Ala Leu Val Leu  
 245 250 255  
 Asp Arg Leu Ala Ser Asn Val Ala Lys Arg Lys Ser Ser Met Pro Gln  
 260 265 270  
 Lys Phe Ile Gly Glu Lys Arg His Cys Phe Asp Val Asn Tyr Asn Ser  
 275 280 285  
 Ser Tyr Met Tyr Glu Lys Glu Ser Glu Leu Ile Gln Thr Arg Met Met  
 290 295 300  
 Asp Gln Ala Ile Asn Asn Ala Ile Ser Tyr Leu Gly Ala Glu Ala Leu  
 305 310 315 320  
 Cys Pro Leu Val Gln Thr Pro Pro Ala Pro Thr Ser Glu Met Val Pro  
 325 330 335  
 Val Ile Ser Ser Met Tyr Pro Ile Ala Leu Thr Arg Ala Glu Met Ser  
 340 345 350  
 Asn Gly Ala Pro Gln Glu Leu Glu Arg Lys Ser Ile Leu Leu Pro Glu  
 355 360 365  
 Lys Ser Val Pro Ser Glu Arg Gly Leu Ser Pro Asn Asn Ser Gly His  
 370 375 380  
 Asp Ser Thr Asp Thr Asp Ser Asn His Glu Glu Arg Gln Asn His Ile  
 385 390 395 400

Siemens 0022 Seq Listing.txt

Tyr Gln Gln Asn His Met Val Leu Ser Arg Ala Arg Asn Gly Met Pro  
 405 410 415  
 Leu Leu Lys Glu Val Pro Arg Ser Tyr Glu Leu Leu Lys Pro Pro Pro  
 420 425 430  
 Ile Cys Pro Arg Asp Ser Val Lys Val Ile Asp Lys Glu Gly Glu Val  
 435 440 445  
 Met Asp Val Tyr Arg Cys Asp His Cys Arg Val Leu Phe Leu Asp Tyr  
 450 455 460  
 val Met Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe  
 465 470 475 480  
 Glu Cys Asn Met Cys Gly Asp Arg Ser His Asp Arg Tyr Glu Phe Ser  
 485 490 495  
 Ser His Ile Ala Arg Gly Glu His Arg Ser Leu Leu Lys  
 500 505  
 <210> 81  
 <211> 440  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 Met Pro Ile Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Pro Pro Pro  
 1 5 10 15  
 Pro Thr Phe His Gln Ala Asn Thr Glu Gln Pro Lys Leu Ser Arg Asp  
 20 25 30  
 Glu Gln Arg Gly Arg Gly Ala Leu Leu Gln Asp Ile Cys Lys Gly Thr  
 35 40 45  
 Lys Leu Lys Lys Val Thr Asn Ile Asn Asp Arg Ser Ala Pro Ile Leu  
 50 55 60  
 Glu Lys Pro Lys Gly Ser Ser Gly Gly Tyr Gly Ser Gly Gly Ala Ala  
 65 70 75 80  
 Leu Gln Pro Lys Gly Gly Leu Phe Gln Gly Gly Val Leu Lys Leu Arg  
 85 90 95  
 Pro Val Gly Ala Lys Asp Gly Ser Glu Asn Leu Ala Gly Lys Pro Ala  
 100 105 110  
 Leu Gln Ile Pro Ser Ser Arg Ala Ala Ala Pro Arg Pro Pro Val Ser  
 115 120 125  
 Ala Ala Ser Gly Arg Pro Gln Asp Asp Thr Asp Ser Ser Arg Ala Ser  
 130 135 140  
 Leu Pro Glu Leu Pro Arg Met Gln Arg Pro Ser Leu Pro Asp Leu Ser  
 145 150 155 160  
 Arg Pro Asn Thr Thr Ser Ser Thr Gly Met Lys His Ser Ser Ser Ala  
 165 170 175  
 Pro Pro Pro Pro Pro Pro Gly Arg Arg Ala Asn Ala Pro Pro Thr Pro  
 180 185 190  
 Leu Pro Met His Ser Ser Lys Ala Pro Ala Tyr Asn Arg Glu Lys Pro  
 195 200 205  
 Leu Pro Pro Thr Pro Gly Gln Arg Leu His Pro Gly Arg Glu Gly Pro  
 210 215 220  
 Pro Ala Pro Pro Pro Val Lys Pro Pro Pro Ser Pro Val Asn Ile Arg  
 225 230 235 240  
 Thr Gly Pro Ser Gly Gln Ser Leu Ala Pro Pro Pro Pro Pro Tyr Arg  
 245 250 255  
 Gln Pro Pro Gly Val Pro Asn Gly Pro Ser Ser Pro Thr Asn Glu Ser  
 260 265 270  
 Ala Pro Glu Leu Pro Gln Arg His Asn Ser Leu His Arg Lys Thr Pro  
 275 280 285  
 Gly Pro Val Arg Gly Leu Ala Pro Pro Pro Pro Thr Ser Ala Ser Pro  
 290 295 300

Siemens 0022 Seq Listing.txt

Ser Leu Leu Ser Asn Arg Pro Pro Pro Pro Ala Arg Asp Pro Pro Ser  
 305 310 315 320  
 Arg Gly Ala Ala Pro Pro Pro Pro Val Ile Arg Asn Gly Ala  
 325 330 335  
 Arg Asp Ala Pro Pro Pro Pro Tyr Arg Met His Gly Ser Glu  
 340 345 350  
 Pro Pro Ser Arg Gly Lys Pro Pro Pro Pro Ser Arg Thr Pro Ala  
 355 360 365  
 Gly Pro Pro Pro Pro Pro Pro Leu Arg Asn Gly His Arg Asp  
 370 375 380  
 Ser Ile Thr Thr Val Arg Ser Phe Leu Asp Asp Phe Glu Ser Lys Tyr  
 385 390 395 400  
 Ser Phe His Pro Val Glu Asp Phe Pro Ala Pro Glu Glu Tyr Lys His  
 405 410 415  
 Phe Gln Arg Ile Tyr Pro Ser Lys Thr Asn Arg Ala Ala Arg Gly Ala  
 420 425 430  
 Pro Pro Leu Pro Pro Ile Leu Arg  
 435 440  
 <210> 82  
 <211> 205  
 <212> PRT  
 <213> Homo sapiens

<400> 82

Met Ser Ile Met Ser Tyr Asn Gly Gly Ala Val Met Ala Met Lys Gly  
 1 5 10 15  
 Lys Asn Cys Val Ala Ile Ala Ala Asp Arg Arg Phe Gly Ile Gln Ala  
 20 25 30  
 Gln Met Val Thr Thr Asp Phe Gln Lys Ile Phe Pro Met Gly Asp Arg  
 35 40 45  
 Leu Tyr Ile Gly Leu Ala Gly Leu Ala Thr Asp Val Gln Thr Val Ala  
 50 55 60  
 Gln Arg Leu Lys Phe Arg Leu Asn Leu Tyr Glu Leu Lys Glu Gly Arg  
 65 70 75 80  
 Gln Ile Lys Pro Tyr Thr Leu Met Ser Met Val Ala Asn Leu Leu Tyr  
 85 90 95  
 Glu Lys Arg Phe Gly Pro Tyr Tyr Thr Glu Pro Val Ile Ala Gly Leu  
 100 105 110  
 Asp Pro Lys Thr Phe Lys Pro Phe Ile Cys Ser Leu Asp Leu Ile Gly  
 115 120 125  
 Cys Pro Met Val Thr Asp Asp Phe Val Val Ser Gly Thr Cys Ala Glu  
 130 135 140  
 Gln Met Tyr Gly Met Cys Glu Ser Leu Trp Glu Pro Asn Met Asp Pro  
 145 150 155 160  
 Asp His Leu Phe Glu Thr Ile Ser Gln Ala Met Leu Asn Ala Val Asp  
 165 170 175  
 Arg Asp Ala Val Ser Gly Met Gly Val Ile Val His Ile Ile Glu Lys  
 180 185 190  
 Asp Lys Ile Thr Thr Arg Thr Leu Lys Ala Arg Met Asp  
 195 200 205  
 <210> 83  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 83  
Leu Thr Arg Ser Cys Ser Thr Cys Cys Pro Ala Val Ala Cys Leu Val  
1 5 10 15  
Gly Arg Gly Val Val Thr Ser Gly Ala Met His Gln Cys Trp Gly Glu  
20 25 30  
Glu Met Leu Gln Gly Met Leu Leu Trp Gly Trp Ala Thr Cys Pro Leu  
35 40 45  
Ser Asn Pro Gly Arg Trp Gly Arg Thr Val Gly Leu Gln His Pro Ala  
50 55 60  
Val Val Ser Ala Phe Arg Ala Leu Leu Leu Met Leu Thr Val His  
65 70 75 80  
Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val  
85 90 95  
Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp  
100 105 110  
Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val  
115 120 125  
Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe  
130 135 140  
Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser  
145 150 155 160  
Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser  
165 170 175  
Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp  
180 185 190  
<210> 84  
<211> 368  
<212> PRT  
<213> Homo sapiens

<400> 84  
Ala Pro Pro Pro Ala Ala Ser Gln Gly Glu Arg Met Ala Gly Leu Ala  
1 5 10 15  
Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala Leu Ala Ser Gly Ser  
20 25 30  
Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys Val Leu Gln Cys Glu  
35 40 45  
Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His Phe Arg Ser Arg Gln  
50 55 60  
Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys Arg Asp Asp Cys Lys  
65 70 75 80  
Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr Leu Gln Glu Gly His  
85 90 95  
Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe Ser Arg Phe Leu Phe  
100 105 110  
Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe Leu Asn Gly Leu Ala  
115 120 125  
Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe Val Pro Ala Ser Ser  
130 135 140  
Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp Val Ser Leu Asn Ala  
145 150 155 160  
Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp Thr Asp Leu Thr Glu  
165 170 175  
Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile Leu His Ser Ile Tyr  
180 185 190  
Leu Cys Cys Val Arg Thr Val Gly Leu Gln His Pro Ala Val Val Ser

## Siemens 0022 Seq Listing.txt

195	200	205
Ala Phe Arg Ala Leu Leu Leu Met Leu Thr Val His Val Ser Tyr		
210	215	220
Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val Ala Asn Val		
225	230	235
Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp Cys Leu Trp		
245	250	255
Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val Val Val Leu		
260	265	270
Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe Pro Pro Leu		
275	280	285
Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser Thr Ile Pro		
290	295	300
Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser Leu Tyr Leu		
305	310	315
Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Val Glu Ala Asp Trp Ile		
325	330	335
Phe Ala Leu Pro Leu Thr Pro Cys Pro Ser Leu Arg Glu Gly Ser Tyr		
340	345	350
Ala Arg Thr Pro Thr Ser Gly Thr Arg Val Ala Cys Ala Ser Phe Phe		
355	360	365
<210> 85		
<211> 190		
<212> PRT		
<213> Homo sapiens		

<400> 85		
Leu Thr Arg Ser Cys Ser Thr Cys Cys Pro Ala Val Ala Cys Leu Val		
1	5	10
Gly Arg Gly Val Val Thr Ser Gly Ala Met His Gln Cys Trp Gly Glu		
20	25	30
Glu Met Leu Gln Gly Met Leu Leu Trp Gly Trp Ala Thr Cys Pro Leu		
35	40	45
Ser Asn Pro Gly Arg Trp Gly Arg Thr Val Gly Leu Gln His Pro Ala		
50	55	60
Val Val Ser Ala Phe Arg Ala Leu Leu Leu Met Leu Thr Val His		
65	70	75
Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val		
85	90	95
Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp		
100	105	110
Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val		
115	120	125
Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe		
130	135	140
Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser		
145	150	155
Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser		
165	170	175
Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp		
180	185	190
<210> 86		
<211> 318		
<212> PRT		
<213> Homo sapiens		

Siemens 0022 Seq Listing.txt

<400> 86  
Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala  
1 5 10 15  
Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys  
20 25 30  
Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His  
35 40 45  
Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys  
50 55 60  
Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr  
65 70 75 80  
Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe  
85 90 95  
Ser Arg Phe Leu Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe  
100 105 110  
Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe  
115 120 125  
Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp  
130 135 140  
Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp  
145 150 155 160  
Thr Asp Leu Gln Arg Lys Trp Thr Thr Ser Val Pro Pro Val Ser Tyr  
165 170 175  
Thr Gln Ser Thr Cys Ala Ala Ser Gly Pro Trp Gly Cys Ser Thr Gln  
180 185 190  
Leu Trp Ser Ser Ala Phe Arg Ala Leu Leu Leu Leu Met Leu Thr Val  
195 200 205  
His Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu  
210 215 220  
Val Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala  
225 230 235 240  
Trp Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val  
245 250 255  
Val Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp  
260 265 270  
Phe Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile  
275 280 285  
Ser Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp  
290 295 300  
Ser Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu  
305 310 315  
<210> 87

<211> 226

<212> PRT

<213> Homo sapiens

<400> 87  
Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala  
1 5 10 15  
Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys  
20 25 30  
Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His  
35 40 45  
Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys  
50 55 60

Siemens 0022 Seq Listing.txt

Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr  
 65 70 75 80  
 Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe  
 85 90 95  
 Ser Arg Phe Leu Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe  
 100 105 110  
 Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe  
 115 120 125  
 Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp  
 130 135 140  
 Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp  
 145 150 155 160  
 Thr Asp Leu Thr Glu Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile  
 165 170 175  
 Leu His Ser Ile Tyr Leu Cys Cys Val Arg Pro Gly Gln Arg Gly Val  
 180 185 190  
 Val Ala Gly Leu Val Pro Val Glu Pro Ala Ala Ala Ala Ser Arg Ala  
 195 200 205  
 Gln Val Arg Gly Gly Gly Leu Ala Ala Ala Gly Ala Val Pro Ala Arg  
 210 215 220  
 Ala Ala  
 225  
 <210> 88  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<400> 88  
 Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala  
 1 5 10 15  
 Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys  
 20 25 30  
 Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His  
 35 40 45  
 Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys  
 50 55 60  
 Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr  
 65 70 75 80  
 Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe  
 85 90 95  
 Ser Arg Phe Leu Phe Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe  
 100 105 110  
 Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe  
 115 120 125  
 Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp  
 130 135 140  
 Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp  
 145 150 155 160  
 Thr Asp Leu Thr Glu Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile  
 165 170 175  
 Leu His Ser Ile Tyr Leu Cys Cys Val Arg Thr Val Gly Leu Gln His  
 180 185 190  
 Pro Ala Val Val Ser Ala Phe Arg Ala Leu Leu Leu Leu Met Leu Thr  
 195 200 205  
 Val His Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn  
 210 215 220  
 Leu Val Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu  
 225 230 235 240

Siemens 0022 Seq Listing.txt

Ala Trp Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys  
245 250 255  
Val Val Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu  
260 265 270  
Asp Phe Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His  
275 280 285  
Ile Ser Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp  
290 295 300  
Asp Ser Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp  
305 310 315 320  
<210> 89  
<211> 217  
<212> PRT  
<213> Homo sapiens

<400> 89  
Ala Pro Pro Pro Ala Ala Ser Gln Gly Glu Arg Met Ala Gly Leu Ala  
1 5 10 15  
Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala Leu Ala Ser Gly Ser  
20 25 30  
Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys Val Leu Gln Cys Glu  
35 40 45  
Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His Phe Arg Ser Arg Gln  
50 55 60  
Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys Arg Asp Asp Cys Lys  
65 70 75 80  
Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr Leu Gln Glu Gly His  
85 90 95  
Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe Ser Arg Phe Leu Phe  
100 105 110  
Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe Leu Asn Gly Leu Ala  
115 120 125  
Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe Val Pro Ala Ser Ser  
130 135 140  
Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp Val Ser Leu Asn Ala  
145 150 155 160  
Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp Thr Asp Leu Thr Glu  
165 170 175  
Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile Leu His Ser Ile Tyr  
180 185 190  
Leu Cys Cys Val Ser Phe Leu Glu Asp Asp Ser Leu Tyr Leu Leu Lys  
195 200 205  
Glu Ser Glu Asp Lys Phe Lys Leu Asp  
210 215  
<210> 90  
<211> 153  
<212> PRT  
<213> Homo sapiens

<400> 90  
Met Asn Val Gly Thr Ala His Ser Glu Val Asn Pro Asn Thr Arg Val  
1 5 10 15  
Met Asn Ser Arg Gly Ile Trp Leu Ser Tyr Val Leu Ala Ile Gly Leu  
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## Siemens 0022 Seq Listing.txt

	20	25	30
Leu His Ile Val Leu Leu Ser Ile Pro Phe Val Ser Val Pro Val Val	35	40	45
Trp Thr Leu Thr Asn Leu Ile His Asn Met Gly Met Tyr Ile Phe Leu	50	55	60
His Thr Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala	65	70	75
Arg Leu Leu Thr His Trp Glu Gln Met Asp Tyr Gly Val Gln Phe Thr	85	90	95
Ala Ser Arg Lys Phe Leu Thr Ile Thr Pro Ile Val Leu Tyr Phe Leu	100	105	110
Thr Ser Phe Tyr Thr Lys Tyr Asp Gln Ile His Phe Val Leu Asn Thr	115	120	125
Val Ser Leu Met Ser Val Leu Ile Pro Lys Leu Pro Gln Leu His Gly	130	135	140
Val Arg Ile Phe Gly Ile Asn Lys Tyr	145	150	
<210>	91		
<211>	436		
<212>	PRT		
<213>	Homo sapiens		

<400>	91			
Met Arg Arg Asp Val Asn Gly Val Thr Lys Ser Arg Phe Glu Met Phe	1	5	10	15
Ser Asn Ser Asp Glu Ala Val Ile Asn Lys Lys Leu Pro Lys Glu Leu	20	25	30	
Leu Leu Arg Ile Phe Ser Phe Leu Asp Val Val Thr Leu Cys Arg Cys	35	40	45	
Ala Gln Val Ser Arg Ala Trp Asn Val Leu Ala Leu Asp Gly Ser Asn	50	55	60	
Trp Gln Arg Ile Asp Leu Phe Asp Phe Gln Arg Asp Ile Glu Gly Arg	65	70	75	80
Val Val Glu Asn Ile Ser Lys Arg Cys Gly Gly Phe Leu Arg Lys Leu	85	90	95	
Ser Leu Arg Gly Cys Leu Gly Val Gly Asp Asn Ala Leu Arg Thr Phe	100	105	110	
Ala Gln Asn Cys Arg Asn Ile Glu Val Leu Asn Leu Asn Gly Cys Thr	115	120	125	
Lys Thr Thr Asp Ala Thr Cys Thr Ser Leu Ser Lys Phe Cys Ser Lys	130	135	140	
Leu Arg His Leu Asp Leu Ala Ser Cys Thr Ser Ile Thr Asn Met Ser	145	150	155	160
Leu Lys Ala Leu Ser Glu Gly Cys Pro Leu Leu Glu Gln Leu Asn Ile	165	170	175	
Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile Gln Ala Leu Val Arg	180	185	190	
Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys Gly Cys Thr Gln Leu	195	200	205	
Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His Cys Pro Glu Leu Val	210	215	220	
Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr Asp Glu Gly Leu Ile	225	230	235	240
Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser Leu Cys Ala Ser Gly	245	250	255	
Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala Leu Gly Gln Asn Cys	260	265	270	
Pro Arg Leu Arg Ile Leu Glu Val Ala Arg Cys Ser Gln Leu Thr Asp				

Siemens 0022 Seq Listing.txt

275	280	285
Val Gly Phe Thr Thr Leu Ala Arg Asn Cys His Glu Leu Glu Lys Met		
290	295	300
Asp Leu Glu Glu Cys Val Gln Ile Thr Asp Ser Thr Leu Ile Gln Leu		
305	310	315
Ser Ile His Cys Pro Arg Leu Gln Val Leu Ser Leu Ser His Cys Glu		
325	330	335
Leu Ile Thr Asp Asp Gly Ile Arg His Leu Gly Asn Gly Ala Cys Ala		
340	345	350
His Asp Gln Leu Glu Val Ile Glu Leu Asp Asn Cys Pro Leu Ile Thr		
355	360	365
Asp Ala Ser Leu Glu His Leu Lys Ser Cys His Ser Leu Glu Arg Ile		
370	375	380
Glu Leu Tyr Asp Cys Gln Gln Ile Thr Arg Ala Gly Ile Lys Arg Leu		
385	390	395
Arg Thr His Leu Pro Asn Ile Lys Val His Ala Tyr Phe Ala Pro Val		
405	410	415
Thr Pro Pro Pro Ser Val Gly Gly Ser Arg Gln Arg Phe Cys Arg Cys		
420	425	430
Cys Ile Ile Leu		
435		
<210> 92		
<211> 204		
<212> PRT		
<213> Homo sapiens		

<400> 92  
Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro  
1 5 10 15  
Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg  
20 25 30  
Pro Thr Pro Ala Met Leu Phe Arg Leu Ser Glu His Ser Ser Pro Glu  
35 40 45  
Glu Glu Ala Ser Pro His Gln Arg Ala Ser Gly Glu Gly His His Leu  
50 55 60  
Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro Ser Leu Lys  
65 70 75 80  
Ala Val Gln Arg Ile Ala Glu Ser His Leu Gln Ser Ile Ser Asn Leu  
85 90 95  
Asn Glu Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg  
100 105 110  
Glu Leu Gly Tyr Pro Arg Glu Glu Asp Glu Glu Glu Glu Asp Asp  
115 120 125  
Glu Glu Glu Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Val  
130 135 140  
Ile Arg Gln Ser Ala Gly Gln Lys Thr Thr Cys Gly Gln Gly Leu Glu  
145 150 155 160  
Gly Pro Trp Glu Arg Pro Pro Pro Leu Asp Glu Ser Glu Arg Asp Gly  
165 170 175  
Gly Ser Glu Asp Gln Val Glu Asp Pro Ala Leu Ser Glu Pro Gly Glu  
180 185 190  
Glu Pro Gln Arg Pro Ser Pro Ser Glu Pro Gly Thr  
195 200  
<210> 93  
<211> 115  
<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 93  
Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu  
1 5 10 15  
Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro  
20 25 30  
Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu  
35 40 45  
Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala  
50 55 60  
Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn  
65 70 75 80  
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala  
85 90 95  
Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys  
100 105 110

Val Ile Leu  
115

<210> 94

<211> 144

<212> PRT

<213> Homo sapiens

<400> 94  
Met Gly Ala Val Val Leu Cys Arg Pro Ser Pro Leu Asn Phe Leu Ile  
1 5 10 15  
Gln Thr Gly Thr Gly Gln Gly Leu Ser Cys Gly Ser His Met Trp Arg  
20 25 30  
Cys Glu Ala Thr Pro Cys Gly Val Cys Gly Glu Ser Pro Val Gly Ser  
35 40 45  
Leu Leu Lys Gln His Arg Gly Arg Gly Lys Thr Trp Pro Val Gly Thr  
50 55 60  
Val Ser Ala Cys Arg Glu Glu Ser Glu Ala Gly Ser Leu Ser Leu Gly  
65 70 75 80  
Trp Ser Leu Leu Pro Ser Pro Val Gly Leu Gly Ala Val Leu Ile Leu  
85 90 95  
Lys Arg Cys Gly Ser Leu Cys Pro Leu Pro Gly Val Gln Gly Asn Arg  
100 105 110  
Arg Gly His Trp Ala Cys Phe Leu Pro Pro Asp Pro Ala Ser Pro Thr  
115 120 125  
Pro Cys Ile Ile Gly Asn Phe His Leu Lys Ile Phe Leu Ser Lys Val  
130 135 140

<210> 95

<211> 425

<212> PRT

<213> Homo sapiens

<400> 95  
Met Gly Gly Gly Asp Leu Asn Leu Lys Lys Ser Trp His Pro Gln Thr  
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Siemens 0022 Seq Listing.txt

1                   5                   10                   15  
 Leu Arg Asn Val Glu Lys Val Trp Lys Ala Glu Gln Lys His Glu Ala  
 20                   25                   30  
 Glu Arg Lys Lys Ile Glu Glu Leu Gln Arg Glu Leu Arg Glu Glu Arg  
 35                   40                   45  
 Ala Arg Glu Glu Met Gln Arg Tyr Ala Glu Asp Val Gly Ala Val Lys  
 50                   55                   60  
 Lys Lys Glu Glu Lys Leu Asp Trp Met Tyr Gln Gly Pro Gly Gly Met  
 65                   70                   75                   80  
 Val Asn Arg Asp Glu Tyr Leu Leu Gly Arg Pro Ile Asp Lys Tyr Val  
 85                   90                   95  
 Phe Glu Lys Met Glu Glu Lys Glu Ala Gly Cys Ser Ser Glu Thr Gly  
 100                  105                  110  
 Leu Leu Pro Gly Ser Ile Phe Ala Pro Ser Gly Ala Asn Ser Leu Leu  
 115                  120                  125  
 Asp Met Ala Ser Lys Ile Arg Glu Asp Pro Leu Phe Ile Ile Arg Lys  
 130                  135                  140  
 Lys Glu Glu Glu Lys Lys Arg Glu Val Leu Asn Asn Pro Val Lys Met  
 145                  150                  155                  160  
 Lys Lys Ile Lys Glu Leu Leu Gln Met Ser Leu Glu Lys Lys Glu Lys  
 165                  170                  175  
 Lys Lys Lys Lys Glu Lys Lys Lys Lys His Lys Lys His Lys His Arg  
 180                  185                  190  
 Ser Ser Ser Asp Arg Ser Ser Ser Glu Asp Glu His Ser Ala Gly  
 195                  200                  205  
 Arg Ser Gln Lys Lys Met Ala Asn Ser Ser Pro Val Leu Ser Lys Val  
 210                  215                  220  
 Pro Gly Tyr Gly Leu Gln Val Arg Asn Ser Asp Arg Asn Gln Gly Leu  
 225                  230                  235                  240  
 Gln Gly Pro Leu Thr Ala Glu Gln Lys Arg Gly His Gly Met Lys Asn  
 245                  250                  255  
 His Ser Arg Ser Arg Ser Ser His Ser Pro Pro Arg His Ala Ser  
 260                  265                  270  
 Lys Lys Ser Thr Arg Glu Ala Gly Ser Arg Asp Arg Arg Ser Arg Ser  
 275                  280                  285  
 Leu Gly Arg Arg Ser Arg Ser Pro Arg Pro Ser Lys Leu His Asn Ser  
 290                  295                  300  
 Lys Val Asn Arg Arg Glu Thr Gly Gln Thr Arg Ser Pro Ser Pro Lys  
 305                  310                  315                  320  
 Lys Glu Val Tyr Gln Arg Arg His Ala Pro Gly Tyr Thr Arg Lys Leu  
 325                  330                  335  
 Ser Ala Glu Glu Leu Glu Arg Lys Arg Gln Glu Met Met Glu Asn Ala  
 340                  345                  350  
 Lys Trp Arg Glu Glu Glu Arg Leu Asn Ile Leu Lys Arg His Ala Lys  
 355                  360                  365  
 Asp Glu Glu Arg Glu Gln Arg Leu Glu Lys Leu Asp Ser Arg Asp Gly  
 370                  375                  380  
 Lys Phe Ile His Arg Met Lys Leu Glu Ser Ala Ser Thr Ser Ser Leu  
 385                  390                  395                  400  
 Glu Asp Arg Val Lys Arg Asn Ile Tyr Ser Leu Gln Arg Thr Ser Val  
 405                  410                  415  
 Ala Leu Glu Lys Asn Phe Met Lys Arg  
 420                  425

<210> 96

<211> 394

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 96  
 Met Phe Ser Val Phe Glu Glu Ile Thr Arg Ile Val Val Lys Glu Met  
 1 5 10 15  
 Asp Ala Gly Gly Asp Met Ile Ala Val Arg Ser Leu Val Asp Ala Asp  
 20 25 30  
 Arg Phe Arg Cys Phe His Leu Val Gly Glu Lys Arg Thr Phe Phe Gly  
 35 40 45  
 Cys Arg His Tyr Thr Thr Gly Leu Thr Leu Met Asp Ile Leu Asp Thr  
 50 55 60  
 His Gly Asp Lys Trp Leu Asp Glu Leu Asp Ser Gly Leu Gln Gly Gln  
 65 70 75 80  
 Lys Ala Glu Phe Gln Ile Leu Asp Asn Val Asp Ser Thr Gly Glu Leu  
 85 90 95  
 Ile Val Arg Leu Pro Lys Glu Ile Thr Ile Ser Gly Ser Phe Gln Gly  
 100 105 110  
 Phe His His Gln Lys Ile Lys Ile Ser Glu Asn Arg Ile Ser Gln Gln  
 115 120 125  
 Tyr Leu Ala Thr Leu Glu Asn Arg Lys Leu Lys Arg Glu Leu Pro Phe  
 130 135 140  
 Ser Phe Arg Ser Ile Asn Thr Arg Glu Asn Leu Tyr Leu Val Thr Glu  
 145 150 155 160  
 Thr Leu Glu Thr Val Lys Glu Glu Thr Leu Lys Ser Asp Arg Gln Tyr  
 165 170 175  
 Lys Phe Trp Ser Gln Ile Ser Gln Gly His Leu Ser Tyr Lys His Lys  
 180 185 190  
 Gly Gln Arg Glu Val Thr Ile Pro Pro Asn Arg Val Leu Ser Tyr Arg  
 195 200 205  
 Val Lys Gln Leu Val Phe Pro Asn Lys Glu Thr Met Arg Lys Ser Leu  
 210 215 220  
 Gly Ser Glu Asp Ser Arg Asn Met Lys Glu Lys Leu Glu Asp Met Glu  
 225 230 235 240  
 Ser Val Leu Lys Asp Leu Thr Glu Glu Lys Arg Lys Asp Val Leu Asn  
 245 250 255  
 Ser Leu Ala Lys Cys Leu Gly Lys Glu Asp Ile Arg Gln Asp Leu Glu  
 260 265 270  
 Gln Arg Val Ser Glu Val Leu Ile Ser Gly Glu Leu His Met Glu Asp  
 275 280 285  
 Pro Asp Lys Pro Leu Leu Ser Ser Leu Phe Asn Ala Ala Gly Val Leu  
 290 295 300  
 Val Glu Ala Arg Ala Lys Ala Ile Leu Asp Phe Leu Asp Ala Leu Leu  
 305 310 315 320  
 Glu Leu Ser Glu Glu Gln Gln Phe Val Ala Glu Ala Leu Glu Lys Gly  
 325 330 335  
 Thr Leu Pro Leu Leu Lys Asp Gln Val Lys Ser Val Met Glu Gln Asn  
 340 345 350  
 Trp Asp Glu Leu Ala Ser Ser Pro Pro Asp Met Asp Tyr Asp Pro Glu  
 355 360 365  
 Ala Arg Ile Leu Cys Ala Leu Tyr Val Val Val Ser Ile Leu Leu Glu  
 370 375 380  
 Leu Ala Glu Gly Pro Thr Ser Val Ser Ser  
 385 390

<210> 97

<211> 456

<212> PRT

<213> Homo sapiens

<400> 97

Met Glu Gly Pro Glu Gly Leu Gly Arg Lys Gln Ala Cys Leu Ala Met  
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## Siemens 0022 Seq Listing.txt

1                       5                       10                       15  
 Leu Leu His Phe Leu Asp Thr Tyr Gln Gly Leu Leu Gln Glu Glu Glu  
     20                   25                       30  
 Gly Ala Gly His Ile Ile Lys Asp Leu Tyr Leu Leu Ile Met Lys Asp  
     35                   40                       45  
 Glu Ser Leu Tyr Gln Gly Leu Arg Glu Asp Thr Leu Arg Leu His Gln  
     50                   55                       60  
 Leu Val Glu Thr Val Glu Leu Lys Ile Pro Glu Glu Asn Gln Pro Pro  
     65                   70                       75                       80  
 Ser Lys Gln Val Lys Pro Leu Phe Arg His Phe Arg Arg Ile Asp Ser  
     85                   90                       95  
 Cys Leu Gln Thr Arg Val Ala Phe Arg Gly Ser Asp Glu Ile Phe Cys  
    100                   105                       110  
 Arg Val Tyr Met Pro Asp His Ser Tyr Val Thr Ile Arg Ser Arg Leu  
    115                   120                       125  
 Ser Ala Ser Val Gln Asp Ile Leu Gly Ser Val Thr Glu Lys Leu Gln  
    130                   135                       140  
 Tyr Ser Glu Glu Pro Ala Gly Arg Glu Asp Ser Leu Ile Leu Val Ala  
    145                   150                       155                       160  
 Val Ser Ser Ser Gly Glu Lys Val Leu Leu Gln Pro Thr Glu Asp Cys  
    165                   170                       175  
 Val Phe Thr Ala Leu Gly Ile Asn Ser His Leu Phe Ala Cys Thr Arg  
    180                   185                       190  
 Asp Ser Tyr Glu Ala Leu Val Pro Leu Pro Glu Glu Ile Gln Val Ser  
    195                   200                       205  
 Pro Gly Asp Thr Glu Ile His Arg Val Glu Pro Glu Asp Val Ala Asn  
    210                   215                       220  
 His Leu Thr Ala Phe His Trp Glu Leu Phe Arg Cys Val His Glu Leu  
    225                   230                       235                       240  
 Glu Phe Val Asp Tyr Val Phe His Gly Glu Arg Gly Arg Arg Glu Thr  
    245                   250                       255  
 Ala Asn Leu Glu Leu Leu Gln Arg Cys Ser Glu Val Thr His Trp  
    260                   265                       270  
 Val Ala Thr Glu Val Leu Leu Cys Glu Ala Pro Gly Lys Arg Ala Gln  
    275                   280                       285  
 Leu Leu Lys Lys Phe Ile Lys Ile Ala Ala Leu Cys Lys Gln Asn Gln  
    290                   295                       300  
 Asp Leu Leu Ser Phe Tyr Ala Val Val Met Gly Leu Asp Asn Ala Ala  
    305                   310                       315                       320  
 Val Ser Arg Leu Arg Leu Thr Trp Glu Lys Leu Pro Gly Lys Phe Lys  
    325                   330                       335  
 Asn Leu Phe Arg Lys Phe Glu Asn Leu Thr Asp Pro Cys Arg Asn His  
    340                   345                       350  
 Lys Ser Tyr Arg Glu Val Ile Ser Lys Met Lys Pro Pro Val Ile Pro  
    355                   360                       365  
 Phe Val Pro Leu Ile Leu Lys Asp Leu Thr Phe Leu His Glu Gly Ser  
    370                   375                       380  
 Lys Thr Leu Val Asp Gly Leu Val Asn Ile Glu Lys Leu His Ser Val  
    385                   390                       395                       400  
 Ala Glu Lys Val Arg Thr Ile Arg Lys Tyr Arg Ser Arg Pro Leu Cys  
    405                   410                       415  
 Leu Asp Met Glu Ala Ser Pro Asn His Leu Gln Thr Lys Ala Tyr Val  
    420                   425                       430  
 Arg Gln Phe Gln Val Ile Asp Asn Gln Asn Leu Leu Phe Glu Leu Ser  
    435                   440                       445  
 Tyr Lys Leu Glu Ala Asn Ser Gln  
    450                   455

&lt;210&gt; 98

&lt;211&gt; 715

&lt;212&gt; PRT

## Siemens 0022 Seq Listing.txt

&lt;213&gt; Homo sapiens

<400> 98  
 Met Ser Gln Val Met Ser Ser Pro Leu Leu Ala Gly Gly His Ala Val  
 1 5 10 15  
 Ser Leu Ala Pro Cys Asp Glu Pro Arg Arg Thr Leu His Pro Ala Pro  
 20 25 30  
 Ser Pro Ser Leu Pro Pro Gln Cys Ser Tyr Tyr Thr Thr Glu Gly Trp  
 35 40 45  
 Gly Ala Gln Ala Leu Met Ala Pro Val Pro Cys Met Gly Pro Pro Gly  
 50 55 60  
 Arg Leu Gln Gln Ala Pro Gln Val Glu Ala Lys Ala Thr Cys Phe Leu  
 65 70 75 80  
 Pro Ser Pro Gly Glu Lys Ala Leu Gly Thr Pro Glu Asp Leu Asp Ser  
 85 90 95  
 Tyr Ile Asp Phe Ser Leu Glu Ser Leu Asn Gln Met Ile Leu Glu Leu  
 100 105 110  
 Asp Pro Thr Phe Gln Leu Leu Pro Pro Gly Thr Gly Gly Ser Gln Ala  
 115 120 125  
 Glu Leu Ala Gln Ser Thr Met Ser Met Arg Lys Lys Glu Glu Ser Glu  
 130 135 140  
 Ala Leu Asp Ile Lys Tyr Ile Glu Val Thr Ser Ala Arg Ser Arg Cys  
 145 150 155 160  
 His Asp Trp Pro Gln His Cys Ser Ser Pro Ser Val Thr Pro Pro Phe  
 165 170 175  
 Gly Ser Pro Arg Ser Gly Gly Leu Leu Ser Arg Asp Val Pro Arg  
 180 185 190  
 Glu Thr Arg Ser Ser Ser Glu Ser Leu Ile Phe Ser Gly Asn Gln Gly  
 195 200 205  
 Arg Gly His Gln Arg Pro Leu Pro Pro Ser Glu Gly Leu Ser Pro Arg  
 210 215 220  
 Pro Pro Asn Ser Pro Ser Ile Ser Ile Pro Cys Met Gly Ser Lys Ala  
 225 230 235 240  
 Ser Ser Pro His Gly Leu Gly Ser Pro Leu Val Ala Ser Pro Arg Leu  
 245 250 255  
 Glu Lys Arg Leu Gly Gly Leu Ala Pro Gln Arg Gly Ser Arg Ile Ser  
 260 265 270  
 Val Leu Ser Ala Ser Pro Val Ser Asp Val Ser Tyr Met Phe Gly Ser  
 275 280 285  
 Ser Gln Ser Leu Leu His Ser Ser Asn Ser Ser His Gln Ser Ser Ser  
 290 295 300  
 Arg Ser Leu Glu Ser Pro Ala Asn Ser Ser Ser Leu His Ser Leu  
 305 310 315 320  
 Gly Ser Val Ser Leu Cys Thr Arg Pro Ser Asp Phe Gln Ala Pro Arg  
 325 330 335  
 Asn Pro Thr Leu Thr Met Gly Gln Pro Arg Thr Pro His Ser Pro Pro  
 340 345 350  
 Leu Ala Lys Glu His Ala Ser Ile Cys Pro Pro Ser Ile Thr Asn Ser  
 355 360 365  
 Met Val Asp Ile Pro Ile Val Leu Ile Asn Gly Cys Pro Glu Pro Gly  
 370 375 380  
 Ser Ser Pro Pro Gln Arg Thr Pro Gly His Gln Asn Ser Val Gln Pro  
 385 390 395 400  
 Gly Ala Ala Ser Pro Ser Asn Pro Cys Pro Ala Thr Arg Ser Asn Ser  
 405 410 415  
 Gln Thr Leu Ser Asp Ala Pro Phe Thr Thr Cys Pro Glu Gly Pro Ala  
 420 425 430  
 Arg Asp Met Gln Pro Thr Met Lys Phe Val Met Asp Thr Ser Lys Tyr  
 435 440 445  
 Trp Phe Lys Pro Asn Ile Thr Arg Glu Gln Ala Ile Glu Leu Leu Arg  
 450 455 460

Siemens 0022 Seq Listing.txt

Lys Glu Glu Pro Gly Ala Phe Val Ile Arg Asp Ser Ser Ser Tyr Arg  
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Gly Ser Phe Gly Leu Ala Leu Lys Val Gln Glu Val Pro Ala Ser Ala  
485 490 495  
Gln Asn Arg Pro Gly Glu Asp Ser Asn Asp Leu Ile Arg His Phe Leu  
500 505 510  
Ile Glu Ser Ser Ala Lys Gly Val His Leu Lys Gly Ala Asp Glu Glu  
515 520 525  
Pro Tyr Phe Gly Ser Leu Ser Ala Phe Val Cys Gln His Ser Ile Met  
530 535 540  
Ala Leu Ala Leu Pro Cys Lys Leu Thr Ile Pro Gln Arg Glu Leu Gly  
545 550 555 560  
Gly Ala Asp Gly Ala Ser Asp Ser Thr Asp Ser Pro Ala Ser Cys Gln  
565 570 575  
Lys Lys Ser Ala Gly Cys His Thr Leu Tyr Leu Ser Ser Val Ser Val  
580 585 590  
Glu Thr Leu Thr Gly Ala Leu Ala Val Gln Lys Ala Ile Ser Thr Thr  
595 600 605  
Phe Glu Arg Asp Ile Leu Pro Thr Pro Thr Val Val His Phe Glu Val  
610 615 620  
Thr Glu Gln Gly Ile Thr Leu Thr Asp Val Gln Arg Lys Val Phe Phe  
625 630 635 640  
Arg Arg His Tyr Pro Leu Thr Thr Leu Arg Phe Cys Gly Met Asp Pro  
645 650 655  
Glu Gln Arg Lys Trp Gln Lys Tyr Cys Lys Pro Ser Trp Ile Phe Gly  
660 665 670  
Phe Val Ala Lys Ser Gln Thr Glu Pro Gln Glu Asn Val Cys His Leu  
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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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<211> 1474

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 754

<212> DNA

<213> Homo sapiens

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gtgg	tttgg	aa	tttctgttt	tc	aa	660
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<211> 749

<212> DNA

<213> Homo sapiens

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tgtgac	cc	ctt	gg	cc	cc	360
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Siemens 0022 Seq Listing.txt

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<211> 440

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1193

<212> DNA

<213> Homo sapiens

<400> 325

Siemens 0022 Seq Listing.txt

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<210> 326

<211> 986

<212> DNA

<213> Homo sapiens

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<400> 326

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<210> 327

<211> 903

<212> DNA

<213> Homo sapiens

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<400> 327

Siemens 0022 Seq Listing.txt

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<211> 615

<212> DNA

<213> Homo sapiens

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<211> 812

<212> DNA

<213> Homo sapiens

<400> 329

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Siemens 0022 Seq Listing.txt

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<210> 330

<211> 601

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 1202

<212> DNA

<213> Homo sapiens

<400> 331

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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<213> Homo sapiens

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## Siemens 0022 Seq Listing.txt

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&lt;211&gt; 942

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

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&lt;210&gt; 335

&lt;211&gt; 924

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 335

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&lt;211&gt; 1099

Siemens 0022 Seq Listing.txt

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<211> 782

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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<212> DNA

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 Page 181

Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens\_0022 Seq Listing.txt

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<211> 1230

<212> DNA

<213> Homo sapiens

<400> 345

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<211> 815

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1252

<212> DNA

<213> Homo sapiens

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<211> 1621

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1713

<212> DNA

<213> Homo sapiens

<400> 349

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<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<210> 352

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 352

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Siemens 0022 Seq Listing.txt

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<210> 353

<211> 2837

<212> DNA

<213> Homo sapiens

<400> 353

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Siemens 0022 Seq Listing.txt

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<210> 354

<211> 1708

<212> DNA

<213> Homo sapiens

<400> 354

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<211> 2051

<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

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<211> 1404

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1693

<212> DNA

<213> Homo sapiens

<400> 357

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<211> 1709

Siemens 0022 Seq Listing.txt

<212> DNA

<213> Homo sapiens

<400> 358

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<210> 359

<211> 1407

<212> DNA

<213> Homo sapiens

<400> 359

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Siemens 0022 Seq Listing.txt

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<210> 360

<211> 2352

<212> DNA

<213> Homo sapiens

<400> 360

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Siemens 0022 Seq Listing.txt

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<211> 1634

<212> DNA

<213> Homo sapiens

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<211> 1688

<212> DNA

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<400> 362

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Siemens 0022 Seq Listing.txt

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<211> 1512

<212> DNA

<213> Homo sapiens

<400> 363

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Siemens 0022 Seq Listing.txt

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<211> 1925

<212> DNA

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&lt;400&gt; 367

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&lt;400&gt; 368

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<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 2218

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<211> 1986

<212> DNA

<213> Homo sapiens

<400> 376

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

<400> 377

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Siemens 0022 Seq Listing.txt

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<210> 378

<211> 2270

<212> DNA

<213> Homo sapiens

<400> 378

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<210> 379

Siemens 0022 Seq Listing.txt

<211> 2301

<212> DNA

<213> Homo sapiens

<400> 379

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caac	ggctccaaga	ggatccat	cagcactaga	ggaggcagct	tcaggaaccg	420
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agtct	ccaatt	gtt	cc	cc	ccccatt	2100
agccc	ctcc	gttat	cc	cc	cc	2160
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<211> 2255

<212> DNA

<213> Homo sapiens

<400> 380

Siemens 0022 Seq Listing.txt

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<210> 381

<211> 2856

<212> DNA

<213> Homo sapiens

<400> 381

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aagaacctgg	agcccatctt	tgagggtctac	atcagcaacc	tgcggaaagca	gctggagaca	660
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Siemens 0022 Seq Listing.txt

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<210> 382

<211> 1985

<212> DNA

<213> Homo sapiens

<400> 382								
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ac	tc	gg	cc	cc	cc	cc	ccatc	720
g	aa	at	cc	cc	cc	cc	ccatc	780
g	cc	cc	cc	cc	cc	cc	ccatc	840
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Siemens 0022 Seq Listing.txt

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<210> 383

<211> 2323

<212> DNA

<213> Homo sapiens

<400> 383

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Siemens 0022 Seq Listing.txt

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385

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1752

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<213> Homo sapiens

<400> 388

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Siemens 0022 Seq Listing.txt

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<211> 1412

<212> DNA

<213> Homo sapiens

<400> 389

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<211> 2516

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<211> 3291

<212> DNA

<213> Homo sapiens

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cagaactggc	agg	gg	gg	ttt	ttt	240

Siemens 0022 Seq Listing.txt

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<210> 392

<211> 1283

<212> DNA

<213> Homo sapiens

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<210> 393

<211> 331

<212> PRT

<213> Homo sapiens

<400> 393

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Phe	Thr	Gly	Glu	Thr	Val	Ser	Leu	Val	Asp	Val	Asp	Ile	Ser	Gln	Arg
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Gly	Leu	Thr	Ser	Pro	His	Pro	Pro	Thr	Pro	Pro	Pro	Pro	Pro	Arg	Arg
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				65			70					75			80
Leu	Val	Ala	Pro	Met	Gly	Ser	Ser	Leu	Gln	Ser	Phe	Pro	Leu	Pro	Pro
				85			90					95			
Pro	Pro	Pro	Pro	His	Ala	Pro	Asp	Ala	Phe	Pro	Arg	Ile	Ala	Pro	Ile
				100			105					110			
Arg	Ala	Ala	Glu	Ser	Leu	His	Ser	Gln	Pro	Pro	Gln	His	Leu	Gln	Cys
				115			120					125			
Pro	Leu	Tyr	Arg	Pro	Asp	Ser	Ser	Phe	Ala	Ala	Ser	Leu	Arg	Glu	
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Glu	Met	Lys	Leu	Lys	Gly	Lys	Pro	Asp	Gly	Ser	Phe	Leu	Val	Arg	Asp
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Siemens 0022 Seq Listing.txt

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<210> 394

<211> 306

<212> PRT

<213> Homo sapiens

<400> 394

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Siemens 0022 Seq Listing.txt

<210> 395

<211> 557

<212> PRT

<213> Homo sapiens

<400> 395  
 Met Val Ser Lys Leu Thr Ser Leu Gln Gln Glu Leu Leu Ser Ala Leu  
 1 5 10 15  
 Leu Ser Ser Gly Val Thr Lys Glu Val Leu Val Gln Ala Leu Glu Glu  
 20 25 30  
 Leu Leu Pro Ser Pro Asn Phe Gly Val Lys Leu Glu Thr Leu Pro Leu  
 35 40 45  
 Ser Pro Gly Ser Gly Ala Glu Pro Asp Thr Lys Pro Val Phe His Thr  
 50 55 60  
 Leu Thr Asn Gly His Ala Lys Gly Arg Leu Ser Gly Asp Glu Gly Ser  
 65 70 75 80  
 Glu Asp Gly Asp Asp Tyr Asp Thr Pro Pro Ile Leu Lys Glu Leu Gln  
 85 90 95  
 Ala Leu Asn Thr Glu Glu Ala Ala Glu Gln Arg Ala Glu Val Asp Arg  
 100 105 110  
 Met Leu Ser Glu Asp Pro Trp Arg Ala Ala Lys Met Ile Lys Gly Tyr  
 115 120 125  
 Met Gln Gln His Asn Ile Pro Gln Arg Glu Val Val Asp Val Thr Gly  
 130 135 140  
 Leu Asn Gln Ser His Leu Ser Gln His Leu Asn Lys Gly Thr Pro Met  
 145 150 155 160  
 Lys Thr Gln Lys Arg Ala Ala Leu Tyr Thr Trp Tyr Val Arg Lys Gln  
 165 170 175  
 Arg Glu Ile Leu Arg Gln Phe Asn Gln Thr Val Gln Ser Ser Gly Asn  
 180 185 190  
 Met Thr Asp Lys Ser Ser Gln Asp Gln Leu Leu Phe Leu Phe Pro Glu  
 195 200 205  
 Phe Ser Gln Gln Ser His Gly Pro Gly Gln Ser Asp Asp Ala Cys Ser  
 210 215 220  
 Glu Pro Thr Asn Lys Lys Met Arg Arg Asn Arg Phe Lys Trp Gly Pro  
 225 230 235 240  
 Ala Ser Gln Gln Ile Leu Tyr Gln Ala Tyr Asp Arg Gln Lys Asn Pro  
 245 250 255  
 Ser Lys Glu Glu Arg Glu Ala Leu Val Glu Glu Cys Asn Arg Ala Glu  
 260 265 270  
 Cys Leu Gln Arg Gly Val Ser Pro Ser Lys Ala His Gly Leu Gly Ser  
 275 280 285  
 Asn Leu Val Thr Glu Val Arg Val Tyr Asn Trp Phe Ala Asn Arg Arg  
 290 295 300  
 Lys Glu Glu Ala Phe Arg Gln Lys Leu Ala Met Asp Ala Tyr Ser Ser  
 305 310 315 320  
 Asn Gln Thr His Ser Leu Asn Pro Leu Leu Ser His Gly Ser Pro His  
 325 330 335  
 His Gln Pro Ser Ser Ser Pro Pro Asn Lys Leu Ser Gly Val Arg Tyr  
 340 345 350  
 Ser Gln Gln Gly Asn Asn Glu Ile Thr Ser Ser Ser Thr Ile Ser His

Siemens 0022 Seq Listing.txt

	355														
His	Gly	Asn	Ser	Ala	Met	Val	Thr	Ser	Gln	Ser	Val	Leu	Gln	Gln	Val
370							375					380			
Ser	Pro	Ala	Ser	Leu	Asp	Pro	Gly	His	Asn	Leu	Leu	Ser	Pro	Asp	Gly
385							390				395				400
Lys	Met	Ile	Ser	Val	Ser	Gly	Gly	Leu	Pro	Pro	Val	Ser	Thr	Leu	
						405				410				415	
Thr	Asn	Ile	His	Ser	Leu	Ser	His	His	Asn	Pro	Gln	Gln	Ser	Gln	Asn
						420				425				430	
Leu	Ile	Met	Thr	Pro	Leu	Ser	Gly	Val	Met	Ala	Ile	Ala	Gln	Ser	Leu
						435				440				445	
Asn	Thr	Ser	Gln	Ala	Gln	Ser	Val	Pro	Val	Ile	Asn	Ser	Val	Ala	Gly
						450				455				460	
Ser	Leu	Ala	Ala	Leu	Gln	Pro	Val	Gln	Phe	Ser	Gln	Gln	Leu	His	Ser
465						470				475				480	
Pro	His	Gln	Gln	Pro	Leu	Met	Gln	Gln	Ser	Pro	Gly	Ser	His	Met	Ala
						485				490				495	
Gln	Gln	Pro	Phe	Met	Ala	Ala	Val	Thr	Gln	Leu	Gln	Asn	Ser	His	Met
						500				505				510	
Tyr	Ala	His	Lys	Gln	Glu	Pro	Pro	Gln	Tyr	Ser	His	Thr	Ser	Arg	Phe
						515				520				525	
Pro	Ser	Ala	Met	Val	Val	Thr	Asp	Thr	Ser	Ser	Ile	Ser	Thr	Leu	Thr
						530				535				540	
Asn	Met	Ser	Ser	Ser	Lys	Gln	Cys	Pro	Leu	Gln	Ala	Trp			
					545					550				555	

<210> 396

<211> 491

<212> PRT

<213> Homo sapiens

	396														
Met	Ser	Ser	Val	Glu	Ala	Lys	Ile	Glu	Asp	Lys	Val	Gln	Arg	Glu	
1				5				10				15			
Ser	Lys	Leu	Thr	Ser	Gly	Lys	Leu	Glu	Asn	Leu	Arg	Lys	Glu	Lys	Ile
							20				25		30		
Asn	Phe	Leu	Arg	Asn	Lys	His	Lys	Ile	His	Val	Gln	Gly	Thr	Asp	Leu
						35				40		45			
Pro	Asp	Pro	Ile	Ala	Thr	Phe	Gln	Gln	Leu	Asp	Gln	Glu	Tyr	Lys	Ile
						50				55		60			
Asn	Ser	Arg	Leu	Leu	Gln	Asn	Ile	Leu	Asp	Ala	Gly	Phe	Gln	Met	Pro
						65				70		75		80	
Thr	Pro	Ile	Gln	Met	Gln	Ala	Ile	Pro	Val	Met	Leu	His	Gly	Arg	Glu
						85				90		95			
Leu	Leu	Ala	Ser	Ala	Pro	Thr	Gly	Ser	Gly	Lys	Thr	Leu	Ala	Phe	Ser
						100				105		110			
Ile	Pro	Ile	Leu	Met	Gln	Leu	Lys	Gln	Pro	Ala	Asn	Lys	Gly	Phe	Arg
						115				120		125			
Ala	Leu	Ile	Ile	Ser	Pro	Thr	Arg	Glu	Leu	Ala	Ser	Gln	Ile	His	Arg
						130				135		140			
Glu	Leu	Ile	Lys	Ile	Ser	Glu	Gly	Thr	Gly	Phe	Arg	Ile	His	Met	Ile
						145				150		155		160	
His	Lys	Ala	Ala	Val	Ala	Ala	Lys	Lys	Phe	Gly	Pro	Lys	Ser	Ser	Lys
						165				170		175			
Lys	Phe	Asp	Ile	Leu	Val	Thr	Thr	Pro	Asn	Arg	Leu	Ile	Tyr	Leu	Leu
						180				185		190			
Lys	Gln	Asp	Pro	Pro	Gly	Ile	Asp	Leu	Ala	Ser	Val	Glu	Trp	Leu	Val

## Siemens 0022 Seq Listing.txt

195															
Val	Asp	Glu	Ser	Asp	Lys	Leu	Phe	Glu	Asp	Gly	Lys	Thr	Gly	Phe	Arg
210						215						220			
Asp	Gln	Leu	Ala	Ser	Ile	Phe	Leu	Ala	Cys	Thr	Ser	His	Lys	Val	Arg
225						230					235				240
Arg	Ala	Met	Phe	Ser	Ala	Thr	Phe	Ala	Tyr	Asp	Val	Glu	Gln	Trp	Cys
						245				250				255	
Lys	Leu	Asn	Leu	Asp	Asn	Val	Ile	Ser	Val	Ser	Ile	Gly	Ala	Arg	Asn
						260			265			270			
Ser	Ala	Val	Glu	Thr	Val	Glu	Gln	Glu	Leu	Leu	Phe	Val	Gly	Ser	Glu
						275			280			285			
Thr	Gly	Lys	Leu	Leu	Ala	Val	Arg	Glu	Leu	Val	Lys	Lys	Gly	Phe	Asn
						290			295			300			
Pro	Pro	Val	Leu	Val	Phe	Val	Gln	Ser	Ile	Glu	Arg	Ala	Lys	Glu	Leu
305						310				315					320
Phe	His	Glu	Leu	Ile	Tyr	Glu	Gly	Ile	Asn	Val	Asp	Val	Ile	His	Ala
						325			330					335	
Glu	Arg	Thr	Gln	Gln	Gln	Arg	Asp	Asn	Thr	Val	His	Ser	Phe	Arg	Ala
						340			345					350	
Gly	Lys	Ile	Trp	Val	Leu	Ile	Cys	Thr	Ala	Leu	Leu	Ala	Arg	Gly	Ile
						355			360			365			
Asp	Phe	Lys	Gly	Val	Asn	Leu	Val	Ile	Asn	Tyr	Asp	Phe	Pro	Thr	Ser
						370			375			380			
Ser	Val	Glu	Tyr	Ile	His	Arg	Ile	Gly	Arg	Thr	Gly	Arg	Ala	Gly	Asn
385						390				395					400
Lys	Gly	Lys	Ala	Ile	Thr	Phe	Phe	Thr	Glu	Asp	Asp	Lys	Pro	Leu	Leu
						405			410					415	
Arg	Ser	Val	Ala	Asn	Val	Ile	Gln	Gln	Ala	Gly	Cys	Pro	Val	Pro	Glu
						420			425					430	
Tyr	Ile	Lys	Gly	Phe	Gln	Lys	Leu	Leu	Ser	Lys	Gln	Lys	Lys	Lys	Met
						435			440			445			
Ile	Lys	Lys	Pro	Leu	Glu	Arg	Glu	Ser	Ile	Ser	Thr	Thr	Pro	Lys	Cys
						450			455			460			
Phe	Leu	Glu	Lys	Ala	Lys	Asp	Lys	Gln	Arg	Lys	Val	Thr	Gly	Gln	Asn
465						470				475					480
Ser	Lys	Lys	Lys	Val	Ala	Leu	Glu	Asp	Lys	Ser					
						485				490					

&lt;210&gt; 397

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 397

Met	Asp	Phe	Ser	Arg	Arg	Ser	Phe	His	Arg	Ser	Leu	Ser	Ser	Leu
1				5				10					15	

Gln	Ala	Pro	Val	Val	Ser	Thr	Val	Gly	Met	Gln	Arg	Leu	Gly	Thr	Thr
								20		25			30		

Pro	Ser	Val	Tyr	Gly	Gly	Ala	Gly	Gly	Arg	Gly	Ile	Arg	Ile	Ser	Asn
						35		40			45				

Ser	Arg	His	Thr	Val	Asn	Tyr	Gly	Ser	Asp	Leu	Thr	Gly	Gly	Asp
						50		55			60			

Leu	Phe	Val	Gly	Asn	Glu	Lys	Met	Ala	Met	Gln	Asn	Leu	Asn	Asp	Arg
65						70				75				80	

Leu	Ala	Ser	Tyr	Leu	Glu	Lys	Val	Arg	Thr	Leu	Glu	Gln	Ser	Asn	Ser
						85		90				95			

Lys	Leu	Glu	Val	Gln	Ile	Lys	Gln	Trp	Tyr	Glu	Thr	Asn	Ala	Pro	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## Siemens 0022 Seq Listing.txt

100	105	110													
Ala	Gly	Arg	Asp	Tyr	Ser	Ala	Tyr	Tyr	Arg	Gln	Ile	Glu	Glu	Leu	Arg
115	120	125													
Ser	Gln	Ile	Lys	Asp	Ala	Gln	Leu	Gln	Asn	Ala	Arg	Cys	Val	Leu	Gln
130	135	140													
Ile	Asp	Asn	Ala	Lys	Leu	Ala	Ala	Glu	Asp	Phe	Arg	Leu	Lys	Tyr	Glu
145	150	155	160												
Thr	Glu	Arg	Gly	Ile	Arg	Leu	Thr	Val	Glu	Ala	Asp	Leu	Gln	Gly	Leu
165	170	175													
Asn	Lys	Val	Phe	Asp	Asp	Leu	Thr	Leu	His	Lys	Thr	Asp	Leu	Glu	Ile
180	185	190													
Gln	Ile	Glu	Glu	Leu	Asn	Lys	Asp	Leu	Ala	Leu	Leu	Lys	Lys	Glu	His
195	200	205													
Gln	Glu	Glu	Val	Asp	Gly	Leu	His	Lys	Leu	Gly	Asn	Thr	Val	Asn	
210	215	220													
Val	Glu	Val	Asp	Ala	Ala	Pro	Gly	Leu	Asn	Leu	Gly	Val	Ile	Met	Asn
225	230	235	240												
Glu	Met	Arg	Gln	Lys	Tyr	Glu	Val	Met	Ala	Gln	Lys	Asn	Leu	Gln	Glu
245	250	255													
Ala	Lys	Glu	Gln	Phe	Glu	Arg	Gln	Thr	Ala	Val	Leu	Gln	Gln	Gln	Val
260	265	270													
Thr	Val	Asn	Thr	Glu	Glu	Leu	Lys	Gly	Thr	Glu	Val	Gln	Leu	Thr	Glu
275	280	285													
Leu	Arg	Arg	Thr	Ser	Gln	Ser	Leu	Glu	Ile	Glu	Leu	Gln	Ser	His	Leu
290	295	300													
Ser	Met	Lys	Glu	Ser	Leu	Glu	His	Thr	Leu	Glu	Glu	Thr	Lys	Ala	Arg
305	310	315	320												
Tyr	Ser	Ser	Gln	Leu	Ala	Asn	Leu	Gln	Ser	Leu	Leu	Ser	Ser	Leu	Glu
325	330	335													
Ala	Gln	Leu	Met	Gln	Ile	Arg	Ser	Asn	Met	Glu	Arg	Gln	Asn	Asn	Glu
340	345	350													
Tyr	His	Ile	Leu	Leu	Asp	Ile	Lys	Thr	Arg	Leu	Glu	Gln	Glu	Ile	Ala
355	360	365													
Thr	Tyr	Arg	Arg	Leu	Leu	Glu	Gly	Glu	Asp	Val	Lys	Thr	Thr	Glu	Tyr
370	375	380													
Gln	Leu	Ser	Thr	Leu	Glu	Glu	Arg	Asp	Ile	Lys	Lys	Thr	Arg	Lys	Ile
385	390	395	400												
Lys	Thr	Val	Val	Gln	Glu	Val	Val	Asp	Gly	Lys	Val	Val	Ser	Ser	Glu
405	410	415													
Val	Lys	Glu	Val	Glu	Glu	Asn	Ile								
420															

&lt;210&gt; 398

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 398

1	5	10	15												
Asp	Thr	Gly	Pro	Arg	Glu	Asp	Leu	Ile	Lys	Val	Leu	Glu	Asp	Met	Arg
20	25	30													
Gln	Glu	Tyr	Glu	Leu	Ile	Ile	Lys	Lys	Lys	His	Arg	Asp	Leu	Asp	Thr
35	40	45													
Trp	Tyr	Lys	Glu	Gln	Ser	Ala	Ala	Met	Ser	Gln	Glu	Ala	Ala	Ser	Pro
50	55	60													
Ala	Thr	Val	Gln	Ser	Arg	Gln	Gly	Asp	Ile	His	Glu	Leu	Lys	Arg	Thr

Siemens 0022 Seq Listing.txt

65                   70                   75                   80  
Phe Gln Ala Leu Glu Ile Asp Leu Gln Thr Gln Tyr Ser Thr Lys Ser  
              85                   90                   95  
Ala Leu Glu Asn Met Leu Ser Glu Thr Gln Ser Arg Tyr Ser Cys Lys  
              100                  105                  110  
Leu Gln Asp Met Gln Glu Ile Ile Ser His Tyr Glu Glu Glu Leu Thr  
              115                  120                  125  
Gln Leu Arg His Glu Leu Glu Arg Gln Asn Asn Glu Tyr Gln Val Leu  
              130                  135                  140  
Leu Gly Ile Lys Thr His Leu Glu Lys Glu Ile Thr Thr Tyr Arg Arg  
              145                  150                  155                  160  
Leu Leu Glu Gly Glu Ser Glu Gly Thr Arg Glu Glu Ser Lys Ser Ser  
              165                  170                  175  
Met Lys Val Ser Ala Thr Pro Lys Ile Lys Ala Ile Thr Gln Glu Thr  
              180                  185                  190  
Ile Asn Gly Arg Leu Val Leu Cys Gln Val Asn Glu Ile Gln Lys His  
              195                  200                  205  
Ala

<210> 399

<211> 98

<212> PRT

<213> Homo sapiens

<400> 399

Met Asp Cys Cys Ala Ser Arg Gly Cys Ser Val Pro Thr Gly Pro Ala  
1                   5                   10                   15  
Thr Thr Ile Cys Ser Ser Asp Lys Ser Cys Arg Cys Gly Val Cys Leu  
20                  25                  30  
Pro Ser Thr Cys Pro His Thr Val Trp Leu Leu Glu Pro Thr Cys Cys  
35                  40                  45  
Asp Asn Cys Pro Pro Pro Cys His Ile Pro Gln Pro Cys Val Pro Thr  
50                  55                  60  
Cys Phe Leu Leu Asn Ser Cys Gln Pro Thr Pro Gly Leu Glu Thr Leu  
65                  70                  75                  80  
Asn Leu Thr Thr Phe Thr Gln Pro Cys Cys Glu Pro Cys Leu Pro Arg  
85                  90                  95  
Gly Cys

<210> 400

<211> 98

<212> PRT

<213> Homo sapiens

<400> 400

Met Asp Cys Cys Ala Ser Arg Ser Cys Ser Val Pro Thr Gly Pro Ala  
1                   5                   10                   15  
Thr Thr Ile Cys Ser Ser Asp Lys Ser Cys Arg Cys Gly Val Cys Leu  
20                  25                  30

Siemens 0022 Seq Listing.txt

Pro Ser Thr Cys Pro His Thr Val Trp Leu Leu Glu Pro Ile Cys Cys  
35 40 45  
Asp Asn Cys Pro Pro Pro Cys His Ile Pro Gln Pro Cys Val Pro Thr  
50 55 60  
Cys Phe Leu Leu Asn Ser Cys Gln Pro Thr Pro Gly Leu Glu Thr Leu  
65 70 75 80  
Asn Leu Thr Thr Phe Thr Gln Pro Cys Cys Glu Pro Cys Leu Pro Arg  
85 90 95  
Gly Cys

<210> 401

<211> 79

<212> PRT

<213> Homo sapiens

<400> 401

Met Ser Cys Cys Asp Ser Tyr Leu Gln Gly Cys Cys Ser Val Pro Thr  
1 5 10 15  
Gly Leu Ala Thr Thr Ile Cys Pro Ser Asp Ile Ser Cys Gln Cys Glu  
20 25 30  
Val Cys Leu Pro Ser Thr Cys Pro His Glu Ile Ser Leu Leu Gln Pro  
35 40 45  
Thr Cys Cys Glu Pro Gly Pro Cys Leu Ala Ala Cys Leu Thr Pro Met  
50 55 60  
Cys His Pro Val Asp Cys Ser Thr Asn Ala Thr Gln Leu Gln Pro  
65 70 75

<210> 402

<211> 98

<212> PRT

<213> Homo sapiens

<400> 402

Met Tyr Cys Cys Ala Leu Arg Ser Cys Ser Val Pro Thr Gly Pro Ala  
1 5 10 15  
Thr Thr Phe Cys Ser Phe Asp Lys Ser Cys Arg Cys Gly Val Cys Leu  
20 25 30  
Pro Ser Thr Cys Pro His Glu Ile Ser Leu Leu Gln Pro Ile Cys Cys  
35 40 45  
Asp Thr Cys Pro Pro Pro Cys Cys Lys Pro Asp Thr Tyr Val Pro Thr  
50 55 60  
Cys Trp Leu Leu Asn Asn Cys His Pro Thr Pro Gly Leu Ser Gly Ile  
65 70 75 80  
Asn Leu Thr Thr Tyr Val Gln Pro Gly Cys Glu Ser Pro Cys Glu Pro  
85 90 95  
Arg Cys

<210> 403

Siemens 0022 Seq Listing.txt

<211> 174

<212> PRT

<213> Homo sapiens

<400> 403  
Met Thr Cys Cys Gln Thr Ser Phe Cys Gly Tyr Pro Ser Phe Ser Ile  
1 5 10 15  
Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr  
20 25 30  
Ser Cys Cys Gln Pro Arg Ser Cys Gln Thr Ser Phe Cys Gly Phe Pro  
35 40 45  
Ser Phe Ser Thr Ser Gly Thr Cys Ser Ser Ser Cys Cys Gln Pro Ser  
50 55 60  
Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr Ser Cys  
65 70 75 80  
Cys Gln Pro Ser Cys Cys Gln Ile Ser Ser Cys Gly Thr Gly Cys Gly  
85 90 95  
Ile Gly Gly Ile Ser Tyr Gly Gln Glu Gly Ser Ser Gly Ala Val  
100 105 110  
Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp Ser Arg Val Glu Gly Thr  
115 120 125  
Tyr Leu Pro Pro Cys Cys Val Val Ser Cys Thr Pro Pro Ser Cys Cys  
130 135 140  
Gln Leu His His Ala Gln Ala Ser Cys Cys Arg Pro Ser Tyr Cys Gly  
145 150 155 160  
Gln Ser Cys Cys Arg Pro Val Cys Cys Cys Glu Pro Thr Cys  
165 170

<210> 404

<211> 167

<212> PRT

<213> Homo sapiens

<400> 404  
Met Thr Cys Cys Gln Thr Ser Phe Cys Gly Tyr Pro Ser Cys Ser Thr  
1 5 10 15  
Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr  
20 25 30  
Ser Cys Cys Gln Pro Ser Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro  
35 40 45  
Ser Phe Ser Thr Ser Gly Thr Cys Ser Ser Ser Cys Cys Gln Pro Ser  
50 55 60  
Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser Cys Cys Gln Thr Ser Ser  
65 70 75 80  
Cys Gly Thr Gly Cys Gly Ile Gly Gly Ile Gly Tyr Gly Gln Glu  
85 90 95  
Gly Ser Ser Gly Ala Val Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp  
100 105 110  
Cys Arg Val Glu Gly Thr Cys Leu Pro Pro Cys Cys Val Val Ser Cys  
115 120 125  
Thr Pro Pro Thr Cys Cys Gln Leu His His Ala Glu Ala Ser Cys Cys  
130 135 140

Siemens 0022 Seq Listing.txt

Arg Pro Ser Tyr Cys Gly Gln Ser Cys Cys Arg Pro Val Cys Cys Cys  
145 150 155 160  
Tyr Ser Cys Glu Pro Thr Cys  
165

<210> 405

<211> 177

<212> PRT

<213> Homo sapiens

<400> 405  
Met Ala Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro Ser Cys Ser Thr  
1 5 10 15  
Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr  
20 25 30  
Ser Ser Cys Gln Pro Arg Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser  
35 40 45  
Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro Ser Phe Ser Thr Gly Gly  
50 55 60  
Thr Cys Asp Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr Ser Cys  
65 70 75 80  
Cys Gln Pro Ser Cys Tyr Gln Thr Ser Ser Cys Gly Thr Gly Cys Gly  
85 90 95  
Ile Gly Gly Ile Gly Tyr Gly Gln Glu Gly Ser Ser Gly Ala Val  
100 105 110  
Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp Cys Arg Val Glu Gly Thr  
115 120 125  
Cys Leu Pro Pro Cys Cys Val Val Ser Cys Thr Pro Pro Ser Cys Cys  
130 135 140  
Gln Leu His His Ala Glu Ala Ser Cys Cys Arg Pro Ser Tyr Cys Gly  
145 150 155 160  
Gln Ser Cys Cys Arg Pro Val Cys Cys Cys Tyr Cys Ser Glu Pro Thr  
165 170 175  
Cys

<210> 406

<211> 85

<212> PRT

<213> Homo sapiens

<400> 406  
Val Thr Cys Val Pro Arg Cys Thr Arg Pro Ile Cys Glu Pro Cys Arg  
1 5 10 15  
Arg Pro Val Cys Cys Asp Pro Cys Ser Leu Gln Glu Gly Cys Cys Arg  
20 25 30  
Pro Ile Thr Cys Cys Pro Ser Ser Cys Thr Ala Val Val Cys Arg Pro  
35 40 45  
Cys Cys Trp Ala Thr Thr Cys Cys Gln Pro Val Ser Val Gln Ser Pro  
50 55 60  
Cys Cys Arg Pro Pro Cys Gly Gln Pro Thr Pro Cys Ser Thr Thr Cys

## Siemens 0022 Seq Listing.txt

65 Arg Thr Ser Ser Cys  
85

70

75

80

&lt;210&gt; 407

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 407  
 Met Thr Gly Ser Cys Cys Gly Ser Thr Leu Ser Ser Leu Ser Tyr Gly  
 1 5 10 15  
 Gly Gly Cys Cys Gln Pro Cys Cys Cys Arg Asp Pro Cys Cys Cys Arg  
 20 25 30  
 Pro Val Thr Cys Gln Thr Thr Val Cys Arg Pro Val Thr Cys Val Pro  
 35 40 45  
 Arg Cys Thr Arg Pro Ile Cys Glu Pro Cys Arg Arg Pro Val Cys Cys  
 50 55 60  
 Asp Pro Cys Ser Leu Gln Glu Gly Cys Cys Arg Pro Ile Thr Cys Cys  
 65 70 75 80  
 Pro Ser Ser Cys Thr Ala Val Val Cys Arg Pro Cys Cys Trp Ala Thr  
 85 90 95  
 Thr Cys Cys Gln Pro Val Ser Val Gln Ser Pro Cys Cys Arg Pro Pro  
 100 105 110  
 Cys Gly Gln Pro Thr Pro Cys Ser Thr Thr Cys Arg Thr Ser Ser Cys  
 115 120 125

&lt;210&gt; 408

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 408  
 Met Glu Thr His Cys Thr Gly Arg Ser Ala Ser Phe Cys Ser Ser Ser  
 1 5 10 15  
 Ala Ile Leu Ile  
 20

&lt;210&gt; 409

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 409  
 Met Val Ser Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly  
 Page 239

Siemens 0022 Seq Listing.txt

1 Gln Val Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr  
5 10 15  
20 25 30  
Thr Cys Cys Arg Thr Thr Cys Tyr Arg Pro Ser Cys Cys Val Ser Ser  
35 40 45  
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys  
50 55 60  
Cys Arg Pro Ser Cys Cys Glu Thr Thr Cys Cys His Pro Arg Cys Cys  
65 70 75 80  
Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys Met Ser Ser Cys Cys Lys  
85 90 95  
Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro  
100 105 110  
Ser Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys Val Ser Arg  
115 120 125  
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys  
130 135 140  
Cys Arg Pro Ser Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys  
145 150 155 160  
Glu Ser Ser Cys Cys Arg Pro Cys Cys Cys Arg Pro Cys Cys Cys Leu  
165 170 175  
Arg Pro Val Cys Gly Arg Val Ser Cys His Thr Thr Cys Tyr Arg Pro  
180 185 190  
Thr Cys Val Ile Ser Thr Cys Pro Arg Pro Leu Cys Cys Ala Ser Ser  
195 200 205  
Cys Cys  
210

<210> 410

<211> 195

<212> PRT

<213> Homo sapiens

<400> 410  
Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser His Gln Gly Cys Gly  
1 5 10 15  
Gln Asp Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Glu Thr  
20 25 30  
Thr Cys Cys Arg Thr Thr Tyr Cys Arg Pro Ser Cys Cys Val Ser Ser  
35 40 45  
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys  
50 55 60  
Cys Arg Pro Arg Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys  
65 70 75 80  
Val Ser Ser Cys Cys Lys Pro Gln Cys Cys Gln Ser Met Cys Cys Gln  
85 90 95  
Pro Thr Cys Cys Arg Pro Arg Cys Cys Ile Ser Ser Cys Cys Arg Pro  
100 105 110  
Ser Cys Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val  
115 120 125  
Cys Cys Gln Pro Thr Cys Cys His Pro Ser Cys Ser Ile Ser Ser Cys  
130 135 140  
Cys Arg Pro Ser Cys Cys Glu Ser Ser Cys Cys Arg Pro Cys Cys Cys  
145 150 155 160  
Leu Arg Pro Val Cys Gly Gly Val Ser Cys His Thr Thr Cys Tyr Arg  
165 170 175  
Pro Thr Cys Val Ile Ser Ser Cys Pro Arg Pro Leu Cys Cys Ala Ser

Siemens 0022 Seq Listing.txt  
180                    185                    190

Ser Cys Cys  
195

<210> 411

<211> 201

<212> PRT

<213> Homo sapiens

<400> 411

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly  
1                    5                    10                    15  
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg  
20                    25                    30  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro  
35                    40                    45  
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro Ser  
50                    55                    60  
Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys  
65                    70                    75                    80  
Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys  
85                    90                    95  
Gln Pro Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg  
100                    105                    110  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro  
115                    120                    125  
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro Ser  
130                    135                    140  
Cys Cys Ile Ser Ser Ser Cys Cys Pro Ser Cys Cys Glu Ser Ser Cys  
145                    150                    155                    160  
Cys Arg Pro Cys Cys Cys Leu Arg Pro Val Cys Gly Arg Val Ser Cys  
165                    170                    175  
His Thr Thr Cys Tyr Arg Pro Thr Cys Val Ile Ser Thr Cys Pro Arg  
180                    185                    190  
Pro Leu Cys Cys Ala Ser Ser Cys Cys  
195                    200

<210> 412

<211> 186

<212> PRT

<213> Homo sapiens

<400> 412

Met Val Ser Ser Cys Cys Gly Ser Val Ser Ser Glu Gln Ser Cys Gly  
1                    5                    10                    15  
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg  
20                    25                    30  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Lys Pro Gln Cys Cys Gln Ser  
35                    40                    45  
Val Cys Tyr Gln Pro Thr Cys Cys His Pro Ser Cys Cys Ile Ser Ser  
50                    55                    60

Siemens 0022 Seq Listing.txt

Cys Cys His Pro Tyr Cys Cys Glu Ser Ser Cys Cys Arg Pro Cys Cys  
65 70 75 80  
Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys  
85 90 95  
Arg Thr Thr Cys Cys Pro Ser Cys Cys Val Ser Ser Cys Cys Arg  
100 105 110  
Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro  
115 120 125  
Ser Cys Cys Ile Ser Ser Cys Cys His Pro Ser Cys Cys Glu Ser Ser  
130 135 140  
Cys Cys Arg Pro Cys Cys Val Arg Pro Val Cys Gly Arg Val Ser  
145 150 155 160  
Cys His Thr Thr Cys Tyr Arg Pro Thr Cys Val Ile Ser Thr Cys Pro  
165 170 175  
Arg Pro Leu Cys Cys Ala Ser Ser Cys Cys  
180 185

<210> 413

<211> 106

<212> PRT

<213> Homo sapiens

<400> 413

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly  
1 5 10 15  
Leu Glu Asn Cys Cys Arg Pro Ser Tyr Cys Gln Thr Thr Cys Cys Arg  
20 25 30  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Arg Pro Ser Cys Cys Arg Pro  
35 40 45  
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Cys Pro Ser  
50 55 60  
Tyr Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Arg  
65 70 75 80  
Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Arg Cys Tyr  
85 90 95  
Arg Pro His Cys Gly Gln Ser Leu Cys Cys  
100 105

<210> 414

<211> 166

<212> PRT

<213> Homo sapiens

<400> 414

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly  
1 5 10 15  
Leu Glu Asn Cys Cys Arg Pro Ser Tyr Cys Gln Thr Thr Cys Cys Arg  
20 25 30  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro  
35 40 45  
Gln Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys His Pro Ser

Siemens 0022 Seq Listing.txt

50               55               60  
Cys Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys  
65               70               75               80  
Cys Gln Pro Thr Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Cys Cys  
85               90               95  
Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Arg Pro Gln Cys Cys Gln  
100              105              110  
Ser Val Cys Cys Gln Pro Thr Cys Cys Cys Pro Ser Tyr Cys Val Ser  
115              120              125  
Ser Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr  
130              135              140  
Cys Cys Arg Pro Ser Cys Cys Val Ser Arg Cys Tyr Arg Pro His Cys  
145              150              155              160  
Gly Gln Ser Leu Cys Cys  
165

<210> 415

<211> 136

<212> PRT

<213> Homo sapiens

<400> 415  
Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly  
1               5               10               15  
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg  
20              25              30  
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro  
35              40              45  
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Ser Pro Ser  
50              55              60  
Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys  
65              70              75              80  
Cys Val Ser Ser Cys Phe Arg Pro Gln Cys Cys Gln Ser Val Cys Cys  
85              90              95  
Gln Pro Thr Cys Cys Arg Pro Ser Cys Gly Gln Thr Thr Cys Cys Arg  
100             105             110  
Thr Thr Cys Tyr Arg Pro Ser Cys Cys Val Ser Thr Cys Cys Arg Pro  
115             120             125  
Thr Cys Ser Ser Gly Ser Cys Cys  
130             135

<210> 416

<211> 127

<212> PRT

<213> Homo sapiens

<400> 416  
Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Asp  
1               5               10               15  
Gln Gly Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr  
20              25              30

Siemens 0022 Seq Listing.txt

Thr Cys Cys Cys Pro Ser Cys Val Val Ser Ser Cys Cys Arg Pro Ser  
35 40 45  
Cys Ser Gln Thr Thr Cys Cys Gln Thr Thr Cys Cys Arg Pro Ser Cys  
50 55 60  
Cys Arg Pro Val Cys Cys Gln Thr Thr Cys Arg Pro Ser Cys Gly Val  
65 70 75 80  
Ser Ser Cys Cys Arg Pro Leu Cys Cys Gln Thr Thr Cys Arg Pro Ser  
85 90 95  
Cys Gly Val Ser Ser Cys Cys Arg Pro Leu Cys Cys Gln Thr Thr Cys  
100 105 110  
Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Gly Ser Ser Cys  
115 120 125

<210> 417

<211> 174

<212> PRT

<213> Homo sapiens

<400> 417

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr  
1 5 10 15  
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys  
20 25 30  
Ser Ser Thr Pro Cys Cys Gln Pro Ala Cys Cys Val Ser Ser Cys Cys  
35 40 45  
Gln Pro Cys Cys Arg Pro Thr Cys Cys Gln Asn Thr Cys Cys Arg Thr  
50 55 60  
Thr Cys Cys Gln Pro Thr Cys Val Thr Ser Cys Cys Gln Pro Ser Cys  
65 70 75 80  
Cys Ser Thr Pro Cys Cys Gln Pro Thr Cys Cys Gly Ser Ser Cys Cys  
85 90 95  
Gly Gln Thr Ser Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys Ala  
100 105 110  
Pro Val Tyr Cys Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys Leu  
115 120 125  
Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro Cys  
130 135 140  
Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys Phe  
145 150 155 160  
Gln Pro Thr Cys Val Ser Ser Cys Cys Gln Pro Ser Cys Cys  
165 170

<210> 418

<211> 159

<212> PRT

<213> Homo sapiens

<400> 418

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr  
1 5 10 15  
Thr Cys Trp Gln Pro Thr Thr Val Thr Thr Cys Ser Ser Thr Pro Cys

Siemens 0022 Seq Listing.txt

20                   25                   30  
Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys Gln Pro Cys Cys His  
35                   40                   45  
Pro Thr Cys Cys Gln Asn Thr Cys Cys Arg Thr Thr Cys Cys Gln Pro  
50                   55                   60  
Ile Cys Val Thr Ser Cys Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys  
65                   70                   75                   80  
Cys Gln Pro Thr Cys Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys  
85                   90                   95  
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr His Pro Thr Ser Val Cys  
100                  105                  110  
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro  
115                  120                  125  
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys  
130                  135                  140  
Phe Gln Pro Thr Cys Val Tyr Ser Cys Cys Gln Pro Ser Cys Cys  
145                  150                  155

<210> 419

<211> 159

<212> PRT

<213> Homo sapiens

<400> 419  
Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr  
1                   5                   10                   15  
Thr Cys Trp Lys Pro Thr Thr Val Thr Cys Ser Ser Thr Pro Cys  
20                  25                  30  
Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys Gln Pro Cys Cys Arg  
35                  40                  45  
Pro Thr Cys Cys Gln Asn Thr Cys Cys Gln Pro Ile Cys Val Thr Ser  
50                  55                  60  
Cys Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys Cys Gln Pro Thr Cys  
65                  70                  75                  80  
Cys Gly Gln Thr Ser Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys  
85                  90                  95  
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr His Pro Thr Thr Val Cys  
100                105                110  
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Ser Cys Cys Gln Pro  
115                120                125  
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys  
130                135                140  
Phe Gln Pro Thr Cys Val Tyr Ser Cys Cys Gln Pro Ser Cys Cys  
145                150                155

<210> 420

<211> 154

<212> PRT

<213> Homo sapiens

<400> 420

Siemens 0022 Seq Listing.txt

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr  
1 5 10 15  
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys  
20 25 30  
Ser Ser Thr Pro Cys Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys  
35 40 45  
Gln Pro Cys Cys Arg Pro Ala Cys Cys Gln Asn Thr Cys Cys Arg Thr  
50 55 60  
Thr Cys Cys Gln Pro Thr Cys Leu Ser Ser Cys Cys Gly Gln Thr Ser  
65 70 75 80  
Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys Ala Pro Val Tyr Cys  
85 90 95  
Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys Leu Pro Gly Cys Leu  
100 105 110  
Asn Gln Ser Cys Gly Ser Ser Cys Cys Gln Pro Cys Cys Arg Pro Ala  
115 120 125  
Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys Phe Gln Pro Thr Cys  
130 135 140  
Val Ser Ser Cys Cys Gln Pro Ser Cys Cys  
145 150

<210> 421

<211> 154

<212> PRT

<213> Homo sapiens

<400> 421

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr  
1 5 10 15  
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys  
20 25 30  
Ser Ser Thr Pro Cys Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys  
35 40 45  
Gln Pro Cys Cys Arg Pro Thr Cys Cys Gln Asn Thr Cys Cys Gln Pro  
50 55 60  
Thr Cys Val Thr Ser Cys Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys  
65 70 75 80  
Cys Gln Pro Thr Cys Cys Gly Ser Ser Cys Asp Gln Ser Ser Ser Cys  
85 90 95  
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys  
100 105 110  
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro  
115 120 125  
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Phe Gln Pro Thr Cys  
130 135 140  
Val Ser Ser Cys Cys Gln Pro Phe Cys Cys  
145 150

<210> 422

<211> 138

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 422  
Met Leu Gln Asp His Leu Leu Gln Asp Asn Leu Leu Glu Ala His His  
1 5 10 15  
Cys Asp His Leu Gln Gln His Ile Leu Pro Ala Leu Leu Leu Cys  
20 25 30  
Val Gln Leu Leu Pro Ala Leu Leu Pro Pro Asn Leu Leu Ser Lys His  
35 40 45  
Leu Leu Gln Asp His Leu Leu Pro Ala His Leu Cys Asp Gln Leu Leu  
50 55 60  
Pro Ala Phe Leu Leu Gln His Thr Leu Leu Thr Ala His Leu Leu Trp  
65 70 75 80  
Val Gln Leu Leu Trp Pro Asn His Leu Trp Val Gln Leu Leu Pro Ala  
85 90 95  
Gln Leu Leu Cys Thr His Leu Leu Gln Glu Asn Leu Leu Pro Pro His  
100 105 110  
Glu Cys Leu Pro Ala Trp Leu Pro Lys Ser Glu Leu Trp Leu Gln Leu  
115 120 125  
Leu Pro Ala Leu Leu Pro Pro Ser Leu Leu  
130 135

<210> 423

<211> 409

<212> PRT

<213> Homo sapiens

<400> 423  
Met Ser Gly Ser Cys Ser Ser Arg Lys Cys Phe Ser Val Pro Ala Thr  
1 5 10 15  
Ser Leu Cys Ser Thr Glu Val Ser Cys Gly Gly Pro Ile Cys Leu Pro  
20 25 30  
Ser Ser Cys Gln Ser Gln Thr Trp Gln Leu Val Thr Cys Gln Asp Ser  
35 40 45  
Cys Gly Ser Ser Ser Cys Gly Pro Gln Cys Arg Gln Pro Ser Cys Pro  
50 55 60  
Val Ser Ser Cys Ala Gln Pro Leu Cys Cys Asp Pro Val Ile Cys Glu  
65 70 75 80  
Pro Ser Cys Ser Val Ser Ser Gly Cys Gln Pro Val Cys Cys Glu Ala  
85 90 95  
Thr Thr Cys Glu Pro Ser Cys Ser Val Ser Asn Cys Tyr Gln Pro Val  
100 105 110  
Cys Phe Glu Ala Thr Ile Cys Glu Pro Ser Cys Ser Val Ser Asn Cys  
115 120 125  
Cys Gln Pro Val Cys Phe Glu Ala Thr Val Cys Glu Pro Ser Cys Ser  
130 135 140  
Val Ser Ser Cys Ala Gln Pro Val Cys Cys Glu Pro Ala Ile Cys Glu  
145 150 155 160  
Pro Ser Cys Ser Val Ser Ser Cys Cys Gln Pro Val Gly Ser Glu Ala  
165 170 175  
Thr Ser Cys Gln Pro Val Leu Cys Val Pro Thr Ser Cys Gln Pro Val  
180 185 190  
Leu Cys Lys Ser Ser Cys Cys Gln Pro Val Val Cys Glu Pro Ser Cys  
195 200 205  
Cys Ser Ala Val Cys Thr Leu Pro Ser Ser Cys Gln Pro Val Val Cys  
210 215 220  
Glu Pro Ser Cys Cys Gln Pro Val Cys Pro Thr Pro Thr Cys Ser Val

Siemens 0022 Seq Listing.txt

225	230	235	240
Thr Ser Ser Cys Gln Ala Val Cys Cys Asp Pro Ser Pro Trp Ser Ser			
245	250	255	
Ala Ser Ala Ile Cys Arg Pro Thr Cys Pro Arg Thr Phe Tyr Ile Pro			
260	265	270	
Ser Ser Ser Lys Arg Pro Cys Ser Ala Thr Ile Ser Tyr Arg Pro Val			
275	280	285	
Ser Arg Pro Ile Cys Arg Pro Ile Cys Ser Gly Leu Leu Thr Tyr Arg			
290	295	300	
Gln Pro Tyr Met Thr Ser Ile Ser Tyr Arg Pro Ala Cys Tyr Arg Pro			
305	310	315	320
Cys Tyr Ser Ile Leu Arg Arg Pro Ala Cys Val Thr Ser Tyr Ser Cys			
325	330	335	
Arg Pro Val Tyr Phe Arg Pro Ser Cys Thr Glu Ser Asp Ser Cys Lys			
340	345	350	
Arg Asp Cys Lys Lys Ser Thr Ser Ser Gln Leu Asp Cys Val Asp Thr			
355	360	365	
Thr Pro Cys Lys Val Asp Val Ser Glu Glu Ala Pro Cys Gln Pro Thr			
370	375	380	
Glu Ala Lys Pro Ile Ser Pro Thr Thr Arg Glu Ala Ala Ala Ala Gln			
385	390	395	400
Pro Ala Ala Ser Lys Pro Ala Asn Cys			
405			

<210> 424

<211> 105

<212> PRT

<213> Homo sapiens

<400> 424

Met Gly Cys Cys Pro Gly Asp Cys Phe Thr Cys Cys Thr Gln Glu Gln			
1	5	10	15
Asn Cys Cys Glu Glu Cys Cys Cys Gln Pro Gly Cys Cys Gly Cys Cys			
20	25	30	
Gly Ser Cys Cys Gly Cys Gly Ser Gly Cys Gly Gly Ser Gly Cys			
35	40	45	
Gly Gly Ser Cys Cys Gly Ser Ser Cys Cys Gly Ser Gly Cys Gly			
50	55	60	
Cys Gly Gly Cys Gly Cys Gly Gly Cys Cys Gly Ser Ser Cys			
65	70	75	80
Cys Gly Ser Ser Cys Cys Gly Ser Gly Cys Cys Gly Pro Val Cys Cys			
85	90	95	
Gln Pro Thr Pro Ile Cys Asp Thr Lys			
100	105		

<210> 425

<211> 404

<212> PRT

<213> Homo sapiens

<400> 425

Siemens 0022 Seq Listing.txt

Met Ser Tyr Ser Cys Gly Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys  
1 5 10 15  
Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Gly Cys Thr Leu Pro  
20 25 30  
Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys  
35 40 45  
Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn  
50 55 60  
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp  
65 70 75 80  
Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu  
85 90 95  
Pro Leu Val Cys Ala Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu  
100 105 110  
Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu Asn Ala Arg Leu Val  
115 120 125  
Val Gln Ile Asp Asn Ala Lys Leu Ala Ser Asp Asp Phe Arg Thr Lys  
130 135 140  
Tyr Glu Thr Glu Leu Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn  
145 150 155 160  
Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Arg Ser Asp Leu  
165 170 175  
Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Gln  
180 185 190  
Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg  
195 200 205  
Leu Asn Val Glu Val Asp Ala Ala Pro Thr Val Asp Leu Asn Gln Val  
210 215 220  
Leu Asn Glu Thr Arg Ser Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg  
225 230 235 240  
Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys  
245 250 255  
Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile  
260 265 270  
Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala  
275 280 285  
Gln His Asn Leu Arg Asp Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu  
290 295 300  
Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Arg Leu Ile Thr Asn  
305 310 315 320  
Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn  
325 330 335  
Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu  
340 345 350  
Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro  
355 360 365  
Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Asp Lys Ser Thr Gly Pro  
370 375 380  
Cys Ile Ser Asn Pro Cys Gly Leu Arg Ala Arg Cys Gly Pro Cys Asn  
385 390 395 400  
Thr Phe Gly Tyr

<210> 426

<211> 404

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 426  
Met Pro Tyr Asn Phe Cys Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys  
1 5 10 15  
Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Gly Tyr Thr Leu Pro  
20 25 30  
Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys  
35 40 45  
Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn  
50 55 60  
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp  
65 70 75 80  
Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu  
85 90 95  
Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu  
100 105 110  
Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu Asn Ala Arg Leu Val  
115 120 125  
Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp Asp Phe Arg Thr Lys  
130 135 140  
Tyr Gln Thr Glu Gln Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn  
145 150 155 160  
Ser Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Arg Ser Asp Leu  
165 170 175  
Glu Ala Gln Met Glu Ser Leu Lys Glu Glu Leu Leu Ser Leu Lys Gln  
180 185 190  
Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg  
195 200 205  
Leu Asn Val Glu Val Asp Ala Ala Pro Ala Val Asp Leu Asn Gln Val  
210 215 220  
Leu Asn Glu Thr Arg Asn Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg  
225 230 235 240  
Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys  
245 250 255  
Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile  
260 265 270  
Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala  
275 280 285  
Gln His Asn Leu Arg Tyr Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu  
290 295 300  
Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Ser Leu Ile Thr Asn  
305 310 315 320  
Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn  
325 330 335  
Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu  
340 345 350  
Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro  
355 360 365  
Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Glu Lys Pro Ile Gly Ser  
370 375 380  
Cys Val Thr Asn Pro Cys Gly Pro Arg Ser Arg Cys Gly Pro Cys Asn  
385 390 395 400  
Thr Phe Gly Tyr

<210> 427

<211> 436

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 427  
Met Leu Tyr Ala Lys Pro Pro Pro Thr Ile Asn Gly Ile Lys Gly Leu  
1 5 10 15  
Gln Arg Lys Glu Arg Leu Lys Pro Ala His Ile His Leu Gln Gln Leu  
20 25 30  
Thr Cys Phe Ser Ile Thr Cys Ser Ser Thr Met Ser Tyr Ser Cys Cys  
35 40 45  
Leu Pro Ser Leu Gly Cys Arg Thr Ser Cys Ser Ser Arg Pro Cys Val  
50 55 60  
Pro Pro Ser Cys His Gly Tyr Thr Leu Pro Gly Ala Cys Asn Ile Pro  
65 70 75 80  
Ala Asn Val Ser Asn Cys Asn Trp Phe Cys Glu Gly Ser Phe Asn Gly  
85 90 95  
Ser Glu Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr  
100 105 110  
Leu Glu Lys Val Arg Gln Leu Glu Arg Asp Asn Ala Glu Leu Glu Lys  
115 120 125  
Leu Ile Gln Glu Arg Ser Gln Gln Glu Pro Leu Leu Cys Pro Ser  
130 135 140  
Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu  
145 150 155 160  
Cys Ala Lys Ala Glu Asn Ala Arg Leu Val Val Asn Ile Asp Asn Ala  
165 170 175  
Lys Leu Ala Ser Asp Asp Phe Arg Ser Lys Tyr Gln Thr Glu Gln Ser  
180 185 190  
Leu Arg Leu Leu Val Glu Ser Asp Ile Asn Ser Ile Arg Arg Ile Leu  
195 200 205  
Asp Glu Leu Thr Leu Cys Lys Ser Asp Leu Glu Ser Gln Val Glu Ser  
210 215 220  
Leu Arg Glu Glu Leu Ile Cys Leu Lys Lys Asn His Glu Glu Glu Val  
225 230 235 240  
Asn Thr Leu Arg Ser Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp  
245 250 255  
Thr Ala Pro Thr Val Asp Leu Asn Gln Val Leu Asn Glu Thr Arg Ser  
260 265 270  
Gln Tyr Glu Ala Leu Val Glu Ile Asn Arg Arg Glu Val Glu Gln Trp  
275 280 285  
Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys Gln Val Val Ser Ser Ser  
290 295 300  
Glu Gln Leu Gln Ser Cys Gln Ala Glu Ile Ile Glu Leu Arg Arg Thr  
305 310 315 320  
Val Asn Ala Leu Glu Ile Glu Leu Gln Ala Gln His Asn Leu Arg Asp  
325 330 335  
Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu Ala His Tyr Ser Ser Gln  
340 345 350  
Leu Ser Gln Val Gln Ser Leu Ile Thr Asn Val Glu Ser Gln Leu Ala  
355 360 365  
Glu Ile Arg Cys Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu  
370 375 380  
Leu Asp Val Arg Ala Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg Ser  
385 390 395 400  
Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro Cys Asn Pro Cys Ala Thr  
405 410 415  
Thr Asn Ala Ser Gly Asn Ser Cys Gly Pro Cys Gly Thr Ser Gln Lys  
420 425 430  
Gly Cys Cys Asn  
435

<210> 428

Siemens 0022 Seq Listing.txt

<211> 416

<212> PRT

<213> Homo sapiens

<400> 428  
 Met Pro Tyr Asn Phe Cys Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys  
 1 5 10 15  
 Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Ser Cys Thr Leu Pro  
 20 25 30  
 Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys  
 35 40 45  
 Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn  
 50 55 60  
 Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp  
 65 70 75 80  
 Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu  
 85 90 95  
 Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu  
 100 105 110  
 Leu Gln Gln Lys Ile Leu Cys Thr Lys Ser Glu Asn Ala Arg Leu Val  
 115 120 125  
 Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp Asp Phe Arg Thr Lys  
 130 135 140  
 Tyr Gln Thr Glu Leu Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn  
 145 150 155 160  
 Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Lys Ser Asp Leu  
 165 170 175  
 Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Ser  
 180 185 190  
 Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg  
 195 200 205  
 Leu Asn Val Glu Val Asp Ala Ala Pro Thr Val Asp Leu Asn Arg Val  
 210 215 220  
 Leu Asn Glu Thr Arg Ser Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg  
 225 230 235 240  
 Arg Glu Val Glu Gln Trp Phe Thr Thr Gln Thr Glu Glu Leu Asn Lys  
 245 250 255  
 Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile  
 260 265 270  
 Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala  
 275 280 285  
 Gln His Asn Leu Arg Asp Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu  
 290 295 300  
 Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Ser Leu Ile Thr Asn  
 305 310 315 320  
 Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn  
 325 330 335  
 Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu  
 340 345 350  
 Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Asn Leu Pro  
 355 360 365  
 Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Ser Lys Pro Ile Gly Pro  
 370 375 380  
 Cys Leu Ser Asn Pro Cys Thr Ser Cys Val Pro Pro Ala Pro Cys Thr  
 385 390 395 400  
 Pro Cys Ala Pro Arg Pro Arg Cys Gly Pro Cys Asn Ser Phe Val Arg  
 405 410 415

Siemens 0022 Seq Listing.txt

<210> 429

<211> 201

<212> PRT

<213> Homo sapiens

<400> 429

Met Thr Ser Asp His Cys Ser Ser Leu Leu Ser Gly Gln Val Ser Glu  
1 5 10 15  
Ala Asn Ala Ala Ser Leu Cys Leu Leu Ala Asn Val Ala His Ala Asn  
20 25 30  
Arg Val Arg Val Gly Ser Thr Pro Leu Gly Arg Leu Ser Leu Cys Leu  
35 40 45  
Pro Pro Thr Cys His Thr Thr Cys Pro Leu Pro Gly Thr Cys His Ile  
50 55 60  
Pro Gly Asn Ile Gly Ile Cys Gly Ala Tyr Arg Glu Asn Thr Leu Asn  
65 70 75 80  
Gly His Glu Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Asn  
85 90 95  
Tyr Leu Glu Lys Val Arg Gln Leu Glu Trp Asp Asn Ala Glu Leu Glu  
100 105 110  
Thr Lys Leu His Glu Arg Ser Lys Cys His Glu Ser Ser Val Cys Arg  
115 120 125  
Asn Tyr Gln Ser Tyr Phe Cys Thr Ile Gln Glu Leu Gln Gln Lys Val  
130 135 140  
Arg Phe Ala Val His Gln Ile Arg Gly Gln Glu Ser Ala Tyr Cys Leu  
145 150 155 160  
Ser Ala Lys Ser Gly Pro Pro Pro Ala Phe Ala Asn Lys Val Leu Leu  
165 170 175  
Val His Gly His Ala His Ala Phe Val Cys Cys Leu Gln Leu Leu Leu  
180 185 190  
Tyr Tyr Ser Gly Arg Val Gln Ser Leu  
195 200

<210> 430

<211> 471

<212> PRT

<213> Homo sapiens

<400> 430

Met Thr Ser Phe Tyr Ser Thr Ser Ser Cys Pro Leu Gly Cys Thr Met  
1 5 10 15  
Ala Pro Gly Ala Arg Asn Val Phe Val Ser Pro Ile Asp Val Gly Cys  
20 25 30  
Gln Pro Val Ala Glu Ala Asn Ala Ala Ser Met Cys Leu Leu Ala Asn  
35 40 45  
Val Ala His Ala Asn Arg Val Arg Val Gly Ser Thr Pro Leu Gly Arg  
50 55 60  
Pro Ser Leu Cys Leu Pro Pro Thr Ser His Thr Ala Cys Pro Leu Pro  
65 70 75 80  
Gly Thr Cys His Ile Pro Gly Asn Ile Gly Ile Cys Gly Ala Tyr Gly  
85 90 95

Siemens 0022 Seq Listing.txt

Lys Asn Thr Leu Asn Gly His Glu Lys Glu Thr Met Lys Phe Leu Asn  
 100 105 110  
 Asp Arg Leu Ala Asn Tyr Leu Glu Lys Val Arg Gln Leu Glu Gln Glu  
 115 120 125  
 Asn Ala Glu Leu Glu Thr Thr Leu Leu Glu Arg Ser Lys Cys His Glu  
 130 135 140  
 Ser Thr Val Cys Pro Asp Tyr Gln Ser Tyr Phe Arg Thr Ile Glu Glu  
 145 150 155 160  
 Leu Gln Gln Lys Ile Leu Cys Ser Lys Ala Glu Asn Ala Arg Leu Ile  
 165 170 175  
 Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp Asp Phe Arg Ile Lys  
 180 185 190  
 Leu Glu Ser Glu Arg Ser Leu His Gln Leu Val Glu Ala Asp Lys Cys  
 195 200 205  
 Gly Thr Gln Lys Leu Leu Asp Asp Ala Thr Leu Ala Lys Ala Asp Leu  
 210 215 220  
 Glu Ala Gln Gln Glu Ser Leu Lys Glu Glu Gln Leu Ser Leu Lys Ser  
 225 230 235 240  
 Asn His Glu Gln Glu Val Lys Ile Leu Arg Ser Gln Leu Gly Glu Lys  
 245 250 255  
 Phe Arg Ile Glu Leu Asp Ile Glu Pro Thr Ile Asp Leu Asn Arg Val  
 260 265 270  
 Leu Gly Glu Met Arg Ala Gln Tyr Glu Ala Met Val Glu Thr Asn His  
 275 280 285  
 Gln Asp Val Glu Gln Trp Phe Gln Ala Gln Ser Glu Gly Ile Ser Leu  
 290 295 300  
 Gln Ala Met Ser Cys Ser Glu Glu Leu Gln Cys Cys Gln Ser Glu Ile  
 305 310 315 320  
 Leu Glu Leu Arg Cys Thr Val Asn Ala Leu Glu Val Glu Arg Gln Ala  
 325 330 335  
 Gln His Thr Leu Lys Asp Cys Leu Gln Asn Ser Leu Cys Glu Ala Glu  
 340 345 350  
 Asp Arg Tyr Gly Thr Glu Leu Ala Gln Met Gln Ser Leu Ile Ser Asn  
 355 360 365  
 Leu Glu Glu Gln Leu Ser Glu Ile Arg Ala Asp Leu Glu Arg Gln Asn  
 370 375 380  
 Gln Glu Tyr Gln Val Leu Leu Asp Val Lys Ala Arg Leu Glu Asn Glu  
 385 390 395 400  
 Ile Ala Thr Tyr Arg Asn Leu Thr Pro Leu Gln Ser Leu Phe His Ala  
 405 410 415  
 Cys Leu Leu Tyr Phe Leu Ser Lys Leu Trp Pro Cys His Arg Trp Val  
 420 425 430  
 Ser Leu Trp Pro Trp Ser Gln His Gly Glu Met Ile Leu Lys Ala Arg  
 435 440 445  
 Val Arg Arg Leu Arg Leu Val Ala Leu Gly Ser Gly Val Pro Ser Pro  
 450 455 460  
 Cys Pro Val Phe Leu Gln Asp  
 465 470

<210> 431

<211> 456

<212> PRT

<213> Homo sapiens

<400> 431

Met Thr Ser Ser Tyr Ser Ser Ser Cys Pro Leu Gly Cys Thr Met  
 1 5 10 15

## Siemens 0022 Seq Listing.txt

Ala Pro Gly Ala Arg Asn Val Ser Val Ser Pro Ile Asp Ile Gly Cys  
                     20                   25                   30  
 Gln Pro Gly Ala Glu Ala Asn Ile Ala Pro Met Cys Leu Leu Ala Asn  
                     35                   40                   45  
 Val Ala His Ala Asn Arg Val Arg Val Gly Ser Thr Pro Leu Gly Arg  
                     50                   55                   60  
 Pro Ser Leu Cys Leu Pro Pro Thr Cys His Thr Ala Cys Pro Leu Pro  
                     65                   70                   75                   80  
 Gly Thr Cys His Ile Pro Gly Asn Ile Gly Ile Cys Gly Ala Tyr Gly  
                     85                   90                   95  
 Glu Asn Thr Leu Asn Gly His Glu Lys Glu Thr Met Gln Phe Leu Asn  
                     100                 105                   110  
 Asp Arg Leu Ala Asn Tyr Leu Glu Lys Val Arg Gln Leu Glu Gln Glu  
                     115                 120                   125  
 Asn Ala Glu Leu Glu Ala Thr Leu Leu Glu Arg Ser Lys Cys His Glu  
                     130                 135                   140  
 Ser Thr Val Cys Pro Asp Tyr Gln Ser Tyr Phe His Thr Ile Glu Glu  
                     145                 150                   155                   160  
 Leu Gln Gln Lys Ile Leu Cys Ser Lys Ala Glu Asn Ala Arg Leu Ile  
                     165                 170                   175  
 Val Gln Ile Asp Asn Ala Lys Leu Ala Asp Asp Phe Arg Ile Lys  
                     180                 185                   190  
 Leu Glu Ser Glu Arg Ser Leu Arg Gln Leu Val Glu Ala Asp Lys Cys  
                     195                 200                   205  
 Gly Thr Gln Lys Leu Leu Asp Asp Ala Thr Leu Ala Lys Ala Asp Leu  
                     210                 215                   220  
 Glu Ala Gln Gln Glu Ser Leu Lys Glu Glu Gln Leu Ser Leu Lys Ser  
                     225                 230                   235                   240  
 Asn His Glu Gln Glu Val Lys Ile Leu Arg Ser Gln Leu Gly Glu Lys  
                     245                 250                   255  
 Leu Arg Ile Glu Leu Asp Ile Glu Pro Thr Ile Asp Leu Asn Arg Val  
                     260                 265                   270  
 Leu Gly Glu Met Arg Ala Gln Tyr Glu Ala Met Leu Glu Thr Asn Arg  
                     275                 280                   285  
 Gln Asp Val Glu Gln Trp Phe Gln Ala Gln Ser Glu Gly Ile Ser Leu  
                     290                 295                   300  
 Gln Asp Met Ser Cys Ser Glu Glu Leu Gln Cys Gln Ser Glu Ile  
                     305                 310                   315                   320  
 Leu Glu Leu Arg Cys Thr Val Asn Ala Leu Glu Val Glu Arg Gln Ala  
                     325                 330                   335  
 Gln His Thr Leu Lys Asp Cys Leu Gln Asn Ser Leu Cys Glu Ala Glu  
                     340                 345                   350  
 Asp Arg Phe Gly Thr Glu Leu Ala Gln Met Gln Ser Leu Ile Ser Asn  
                     355                 360                   365  
 Val Glu Glu Gln Leu Ser Glu Ile Arg Ala Asp Leu Glu Arg Gln Asn  
                     370                 375                   380  
 Gln Glu Tyr Gln Val Leu Leu Asp Val Lys Thr Arg Leu Glu Asn Glu  
                     385                 390                   395                   400  
 Ile Ala Thr Tyr Arg Asn Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro  
                     405                 410                   415  
 Cys Asn Pro Cys Ser Thr Ser Pro Ser Cys Val Thr Ala Pro Cys Ala  
                     420                 425                   430  
 Pro Arg Pro Ser Cys Gly Pro Cys Thr Thr Cys Gly Pro Thr Cys Gly  
                     435                 440                   445  
 Ala Ser Thr Thr Gly Ser Arg Phe  
                     450                 455

&lt;210&gt; 432

&lt;211&gt; 448

&lt;212&gt; PRT

## Siemens 0022 Seq Listing.txt

&lt;213&gt; Homo sapiens

<400> 432  
 Met Thr Ser Ser Cys Cys Val Thr Asn Asn Leu Gln Ala Ser Leu Lys  
 1 5 10 15  
 Ser Cys Pro Arg Pro Ala Ser Val Cys Ser Ser Gly Val Asn Cys Arg  
 20 25 30  
 Pro Glu Leu Cys Leu Gly Tyr Val Cys Gln Pro Met Ala Cys Leu Pro  
 35 40 45  
 Ser Val Cys Leu Pro Thr Thr Phe Arg Pro Ala Ser Cys Leu Ser Lys  
 50 55 60  
 Thr Tyr Leu Ser Ser Ser Cys Gln Ala Ala Ser Gly Ile Ser Gly Ser  
 65 70 75 80  
 Met Gly Pro Gly Ser Trp Tyr Ser Glu Gly Ala Phe Asn Gly Asn Glu  
 85 90 95  
 Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr Leu Thr  
 100 105 110  
 Arg Val Arg Gln Leu Glu Gln Glu Asn Ala Glu Leu Glu Ser Arg Ile  
 115 120 125  
 Gln Glu Ala Ser His Ser Gln Val Leu Thr Met Thr Pro Asp Tyr Gln  
 130 135 140  
 Ser His Phe Arg Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu Cys Thr  
 145 150 155 160  
 Lys Ala Glu Asn Ala Arg Met Val Val Asn Ile Asp Asn Ala Lys Leu  
 165 170 175  
 Ala Ala Asp Asp Phe Arg Ala Lys Tyr Glu Ala Glu Leu Ala Met Arg  
 180 185 190  
 Gln Leu Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Ile Leu Asp Asp  
 195 200 205  
 Leu Thr Leu Cys Lys Ala Asp Leu Glu Ala Gln Val Glu Ser Leu Lys  
 210 215 220  
 Glu Glu Leu Met Cys Leu Lys Lys Asn His Glu Glu Glu Val Gly Ser  
 225 230 235 240  
 Leu Arg Cys Gln Leu Gly Asp Arg Leu Asn Ile Glu Val Asp Ala Ala  
 245 250 255  
 Pro Pro Val Asp Leu Thr Arg Val Leu Glu Glu Met Arg Cys Gln Tyr  
 260 265 270  
 Glu Ala Met Val Glu Ala Asn Arg Arg Asp Val Glu Glu Trp Phe Asn  
 275 280 285  
 Met Gln Met Glu Glu Leu Asn Gln Gln Val Ala Thr Ser Ser Glu Gln  
 290 295 300  
 Leu Gln Asn Tyr Gln Ser Asp Ile Ile Asp Leu Arg Arg Thr Val Asn  
 305 310 315 320  
 Thr Leu Glu Ile Glu Leu Gln Ala Gln His Ser Leu Arg Asp Ser Leu  
 325 330 335  
 Glu Asn Thr Leu Thr Glu Ser Glu Ala Arg Tyr Ser Ser Gln Leu Ala  
 340 345 350  
 Gln Met Gln Cys Met Ile Thr Asn Val Glu Ala Gln Leu Ala Glu Ile  
 355 360 365  
 Arg Ala Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp  
 370 375 380  
 Val Arg Ala Arg Leu Glu Gly Glu Ile Asn Thr Tyr Arg Ser Leu Leu  
 385 390 395 400  
 Glu Ser Glu Asp Cys Lys Leu Pro Cys Asn Pro Cys Ser Thr Pro Ser  
 405 410 415  
 Cys Thr Thr Cys Val Pro Ser Pro Cys Val Thr Arg Thr Val Cys Val  
 420 425 430  
 Pro Arg Thr Val Gly Met Pro Cys Ser Pro Cys Pro Gln Gly Arg Tyr  
 435 440 445

Siemens 0022 Seq Listing.txt

<210> 433

<211> 425

<212> PRT

<213> Homo sapiens

<400> 433  
 Met Tyr Ser Ser Ser Ser Cys Lys Leu Pro Ser Leu Ser Pro Val Ala  
 1 5 10 15  
 Arg Ser Phe Ser Ala Cys Ser Val Gly Leu Gly Arg Ser Ser Tyr Arg  
 20 25 30  
 Ala Thr Ser Cys Leu Pro Ala Leu Cys Leu Pro Ala Gly Gly Phe Ala  
 35 40 45  
 Thr Ser Tyr Ser Gly Gly Gly Trp Phe Gly Glu Gly Ile Leu Thr  
 50 55 60  
 Gly Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg Leu Ala Gly  
 65 70 75 80  
 Tyr Leu Glu Lys Val Arg Gln Leu Glu Gln Glu Asn Ala Ser Leu Glu  
 85 90 95  
 Ser Arg Ile Arg Glu Trp Cys Glu Gln Gln Val Pro Tyr Met Cys Pro  
 100 105 110  
 Asp Tyr Gln Ser Tyr Phe Arg Thr Ile Glu Glu Leu Gln Lys Lys Thr  
 115 120 125  
 Leu Cys Ser Lys Ala Glu Asn Ala Arg Leu Val Val Glu Ile Asp Asn  
 130 135 140  
 Ala Lys Leu Ala Ala Asp Asp Phe Arg Thr Lys Tyr Glu Thr Glu Val  
 145 150 155 160  
 Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn Gly Leu Arg Arg Ile  
 165 170 175  
 Leu Asp Asp Leu Thr Leu Cys Lys Ser Asp Leu Glu Ala Gln Val Glu  
 180 185 190  
 Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Lys Asn His Glu Glu Glu  
 195 200 205  
 Val Asn Ser Leu Arg Cys Gln Leu Gly Asp Arg Leu Asn Val Glu Val  
 210 215 220  
 Asp Ala Ala Pro Pro Val Asp Leu Asn Arg Val Leu Glu Glu Met Arg  
 225 230 235 240  
 Cys Gln Tyr Glu Thr Leu Val Glu Asn Asn Arg Arg Asp Ala Glu Asp  
 245 250 255  
 Trp Leu Asp Thr Gln Ser Glu Glu Leu Asn Gln Gln Val Val Ser Ser  
 260 265 270  
 Ser Glu Gln Leu Gln Ser Cys Gln Ala Glu Ile Ile Glu Leu Arg Arg  
 275 280 285  
 Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala Gln His Ser Met Arg  
 290 295 300  
 Asp Ala Leu Glu Ser Thr Leu Ala Glu Thr Glu Ala Arg Tyr Ser Ser  
 305 310 315 320  
 Gln Leu Ala Gln Met Gln Cys Met Ile Thr Asn Val Glu Ala Gln Leu  
 325 330 335  
 Ala Glu Ile Arg Ala Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val  
 340 345 350  
 Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg  
 355 360 365  
 Gly Leu Leu Glu Ser Glu Asp Ser Lys Leu Pro Cys Asn Pro Cys Ala  
 370 375 380  
 Pro Asp Tyr Ser Pro Ser Lys Ser Cys Leu Pro Cys Leu Pro Ala Ala  
 385 390 395 400  
 Ser Cys Gly Pro Ser Ala Ala Arg Thr Asn Cys Ser Pro Arg Pro Ile

Siemens 0022 Seq Listing.txt  
405 410 415

Cys Val Pro Cys Pro Gly Gly Arg Phe  
420 425

<210> 434

<211> 467

<212> PRT

<213> Homo sapiens

<400> 434  
Met Ala Thr Gln Thr Cys Thr Pro Thr Phe Ser Thr Gly Ser Ile Lys  
1 5 10 15  
Gly Leu Cys Gly Thr Ala Gly Gly Ile Ser Arg Val Ser Ser Ile Arg  
20 25 30  
Ser Val Gly Ser Cys Arg Val Pro Ser Leu Ala Gly Ala Ala Gly Tyr  
35 40 45  
Ile Ser Ser Ala Arg Ser Gly Leu Ser Gly Leu Gly Ser Cys Leu Pro  
50 55 60  
Gly Ser Tyr Leu Ser Ser Glu Cys His Thr Ser Gly Phe Val Gly Ser  
65 70 75 80  
Gly Gly Trp Phe Cys Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr  
85 90 95  
Met Gln Phe Leu Asn Asp Arg Leu Ala Asn Tyr Leu Glu Lys Val Arg  
100 105 110  
Gln Leu Glu Arg Glu Asn Ala Glu Leu Glu Ser Arg Ile Gln Glu Trp  
115 120 125  
Tyr Glu Phe Gln Ile Pro Tyr Ile Cys Pro Asp Tyr Gln Ser Tyr Phe  
130 135 140  
Lys Thr Ile Glu Asp Phe Gln Gln Lys Ile Leu Leu Thr Lys Ser Glu  
145 150 155 160  
Asn Ala Arg Leu Val Leu Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp  
165 170 175  
Asp Phe Arg Thr Lys Tyr Glu Thr Glu Leu Ser Leu Arg Gln Leu Val  
180 185 190  
Glu Ala Asp Ile Asn Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu  
195 200 205  
Cys Lys Ala Asp Leu Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu  
210 215 220  
Met Cys Leu Lys Lys Asn His Glu Glu Glu Val Ser Val Leu Arg Cys  
225 230 235 240  
Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp Ala Ala Pro Pro Val  
245 250 255  
Asp Leu Asn Lys Ile Leu Glu Asp Met Arg Cys Gln Tyr Glu Ala Leu  
260 265 270  
Val Glu Asn Asn Arg Arg Asp Val Glu Ala Trp Phe Asn Thr Gln Thr  
275 280 285  
Glu Glu Leu Asn Gln Gln Val Val Ser Ser Ser Glu Gln Leu Gln Cys  
290 295 300  
Cys Gln Thr Glu Ile Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu  
305 310 315 320  
Ile Glu Leu Gln Ala Gln His Ser Met Arg Asn Ser Leu Glu Ser Thr  
325 330 335  
Leu Ala Glu Thr Glu Ala Arg Tyr Ser Ser Gln Leu Ala Gln Met Gln  
340 345 350  
Cys Leu Ile Ser Asn Val Glu Ala Gln Leu Ser Glu Ile Arg Cys Asp  
355 360 365  
Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp Val Lys Ala

Siemens 0022 Seq Listing.txt

370	375	380
Arg Leu Glu Gly Glu Ile Ala Thr Tyr Arg His		Leu Leu Glu Gly Glu
385	390	395
Asp Cys Lys Leu Pro Pro Gln Pro Cys Ala Thr Ala Cys Lys Pro Val		400
405	410	415
Ile Arg Val Pro Ser Val Pro Pro Val Pro Cys Val Pro Ser Val Pro		
420	425	430
Cys Thr Pro Ala Pro Gln Val Gly Thr Gln Ile Arg Thr Ile Thr Glu		
435	440	445
Glu Ile Arg Asp Gly Lys Val Ile Ser Ser Arg Glu His Val Gln Ser		
450	455	460
Arg Pro Leu		
465		

<210> 435

<211> 420

<212> PRT

<213> Homo sapiens

<400> 435  
 Met Ser Leu Arg Leu Gln Ser Ser Ser Ala Ser Tyr Gly Gly Phe  
 1 5 10 15  
 Gly Gly Gly Ser Cys Gln Leu Gly Gly Arg Gly Val Ser Thr Cys  
 20 25 30  
 Ser Thr Arg Phe Val Ser Gly Gly Ser Ala Gly Gly Tyr Gly Gly  
 35 40 45  
 Val Ser Cys Gly Phe Gly Gly Ala Gly Ser Gly Phe Gly Gly Gly  
 50 55 60  
 Tyr Gly Gly Leu Gly Gly Tyr Gly Gly Leu Gly Gly Gly  
 65 70 75 80  
 Phe Gly Gly Phe Ala Gly Gly Phe Val Asp Phe Gly Ala Cys Asp  
 85 90 95  
 Gly Gly Leu Leu Thr Gly Asn Glu Lys Ile Thr Met Gln Asn Leu Asn  
 100 105 110  
 Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Ala Leu Glu Glu Ala  
 115 120 125  
 Asn Ala Asp Leu Glu Val Lys Ile Arg Asp Trp His Leu Lys Gln Ser  
 130 135 140  
 Pro Ala Ser Pro Glu Arg Asp Tyr Ser Pro Tyr Tyr Lys Thr Ile Glu  
 145 150 155 160  
 Glu Leu Arg Asp Lys Ile Leu Thr Ala Thr Ile Glu Asn Asn Arg Val  
 165 170 175  
 Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Val Asp Asp Phe Arg Leu  
 180 185 190  
 Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Ser Val Glu Ala Asp Ile  
 195 200 205  
 Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ser Lys Thr Asp  
 210 215 220  
 Leu Glu Met Gln Ile Glu Ser Leu Asn Glu Glu Leu Ala Tyr Met Lys  
 225 230 235 240  
 Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Asn Gln Val Val Gly  
 245 250 255  
 Gln Val Asn Val Glu Met Asp Ala Thr Pro Gly Ile Asp Leu Thr Arg  
 260 265 270  
 Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Arg Asn  
 275 280 285  
 Arg Arg Asp Ala Glu Glu Trp Phe His Ala Lys Ser Ala Glu Leu Asn

Siemens 0022 Seq Listing.txt

290	295	300		
Lys Glu Val Ser Thr Asn Thr Ala Met Ile Gln Thr Ser Lys Thr Glu				
305	310	315	320	
Ile Thr Glu Leu Arg Arg Thr Leu Gln Gly Leu Glu Ile Glu Leu Gln				
	325	330	335	
Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Thr Val Ala Glu Thr				
	340	345	350	
Glu Cys Arg Tyr Ala Leu Gln Leu Gln Ile Gln Gly Leu Ile Ser				
	355	360	365	
Ser Ile Glu Ala Gln Leu Ser Glu Leu Arg Ser Glu Met Glu Cys Gln				
	370	375	380	
Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu Gln				
	385	390	395	400
Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys Lys				
	405	410	415	
Arg Gln Pro Pro				
	420			

<210> 436

<211> 456

<212> PRT

<213> Homo sapiens

<400> 436	Met Thr Thr Thr Phe Leu Gln Thr Ser Ser Ser Thr Phe Gly Gly Gly	15
	5 10 15	
1		
Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Phe Gly Gly		
	20 25 30	
Gly Ser Leu Ser Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser		
	35 40 45	
Ala Arg Phe Val Ser Ser Gly Ser Gly Gly Tyr Gly Gly Gly Met		
	50 55 60	
Arg Val Cys Gly Phe Gly Gly Ala Gly Ser Val Phe Gly Gly		
	65 70 75 80	
Phe Gly Gly Val Gly Gly Phe Gly Gly Gly Phe Gly Gly		
	85 90 95	
Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu		
	100 105 110	
Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu		
	115 120 125	
Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln		
	130 135 140	
Thr Pro Thr Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile		
	145 150 155 160	
Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg		
	165 170 175	
Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg		
	180 185 190	
Leu Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp		
	195 200 205	
Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr		
	210 215 220	
Asp Leu Glu Met Gln Ile Glu Gly Leu Asn Glu Glu Leu Ala Tyr Leu		
	225 230 235 240	
Lys Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Ser Gln Leu Ala		
	245 250 255	
Gly Gln Val Asn Val Glu Met Asp Ala Ala Pro Gly Val Asp Leu Thr		

## Siemens 0022 Seq Listing.txt

260	265	270
Arg Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Lys		
275	280	285
Asn Arg Arg Asp Val Glu Ala Trp Phe Phe Ser Lys Thr Glu Glu Leu		
290	295	300
Asn Lys Glu Val Ala Ser Asn Thr Gln Met Ile Gln Thr Ser Lys Thr		
305	310	315
Glu Ile Thr Asp Leu Arg Arg Thr Met Gln Glu Leu Glu Ile Glu Leu		
325	330	335
Gln Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Ser Leu Ala Glu		
340	345	350
Thr Glu Cys Arg Tyr Ala Thr Gln Leu Gln Gln Ile Gln Gly Leu Ile		
355	360	365
Gly Gly Leu Glu Ala Gln Leu Ser Glu Leu Arg Cys Glu Met Glu Ala		
370	375	380
Gln Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu		
385	390	395
Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys		
405	410	415
Met Ala Gly Ile Gly Ile Arg Glu Ala Ser Ser Gly Gly Gly Ser		
420	425	430
Ser Ser Asn Phe His Ile Asn Val Glu Glu Ser Val Asp Gly Gln Val		
435	440	445
Val Ser Ser His Lys Arg Glu Ile		
450	455	

&lt;210&gt; 437

&lt;211&gt; 400

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

1	5	10	15
Gly Leu Gly Gly Ser Val Arg Phe Gly Pro Gly Val Ala Phe Arg			
20	25	30	
Ala Pro Ser Ile His Gly Gly Ser Gly Gly Arg Gly Val Ser Val Ser			
35	40	45	
Ser Ala Arg Phe Val Ser Ser Ser Ser Gly Ala Tyr Gly Gly Gly			
50	55	60	
Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly Leu Leu Ala Gly Asn Glu			
65	70	75	80
Lys Leu Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp			
85	90	95	
Lys Val Arg Ala Leu Glu Ala Ala Asn Gly Glu Leu Glu Val Lys Ile			
100	105	110	
Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly Pro Ser Arg Asp Tyr Ser			
115	120	125	
His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg Asp Lys Ile Leu Gly Ala			
130	135	140	
Thr Ile Glu Asn Ser Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu			
145	150	155	160
Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg			
165	170	175	
Met Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp Glu			
180	185	190	
Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu Gly Leu Lys			

Siemens 0022 Seq Listing.txt

Glu	Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Ile	Ser	Thr	
210					215					220					
Leu	Arg	Gly	Gln	Val	Gly	Gly	Gln	Val	Ser	Val	Glu	Val	Asp	Ser	Ala
225					230					235					240
Pro	Gly	Thr	Asp	Leu	Ala	Lys	Ile	Leu	Ser	Asp	Met	Arg	Ser	Gln	Tyr
					245				250					255	
Glu	Val	Met	Ala	Glu	Gln	Asn	Arg	Lys	Asp	Ala	Glu	Ala	Trp	Phe	Thr
					260			265					270		
Ser	Arg	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala	Gly	His	Thr	Glu	Gln
					275			280				285			
Leu	Gln	Met	Ser	Arg	Ser	Glu	Val	Thr	Asp	Leu	Arg	Arg	Thr	Leu	Gln
					290		295			300					
Gly	Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser	Met	Lys	Ala	Ala	Leu
305					310					315					320
Glu	Asp	Thr	Leu	Ala	Glu	Thr	Glu	Ala	Arg	Phe	Gly	Ala	Gln	Leu	Ala
					325				330					335	
His	Ile	Gln	Ala	Leu	Ile	Ser	Gly	Ile	Glu	Ala	Gln	Leu	Gly	Asp	Val
					340			345					350		
Arg	Ala	Asp	Ser	Glu	Arg	Gln	Asn	Gln	Glu	Tyr	Gln	Arg	Leu	Met	Asp
					355			360				365			
Ile	Lys	Ser	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Ser	Leu	Leu
					370			375			380				
Glu	Gly	Gln	Glu	Asp	His	Tyr	Asn	Asn	Leu	Ser	Ala	Ser	Lys	Val	Leu
					385		390			395					400

<210> 438

<211> 622

<212> PRT

<213> Homo sapiens

<400> 438

Met	Ser	Cys	Arg	Gln	Phe	Ser	Ser	Ser	Tyr	Leu	Thr	Ser	Gly	Gly	Gly
1				5					10				15		
Gly	Gly	Gly	Gly	Leu	Gly	Ser	Gly	Gly	Ser	Ile	Arg	Ser	Ser	Tyr	Ser
			20					25					30		
Arg	Phe	Ser	Ser	Ser	Gly	Gly	Arg	Gly	Gly	Gly	Arg	Phe	Ser	Ser	
							35	40				45			
Ser	Ser	Gly	Tyr	Gly	Gly	Ser	Ser	Arg	Val	Cys	Gly	Arg	Gly	Gly	
					55					60					
Gly	Gly	Ser	Phe	Gly	Tyr	Ser	Tyr	Gly	Gly	Ser	Gly	Gly	Gly	Phe	
	65				70				75					80	
Ser	Ala	Ser	Ser	Leu	Gly	Gly	Phe	Gly	Gly	Ser	Arg	Gly	Phe		
							85	90				95			
Gly	Gly	Ala	Ser	Gly	Gly	Gly	Tyr	Ser	Ser	Ser	Gly	Phe	Gly	Gly	
				100				105				110			
Gly	Phe	Gly	Gly	Ser	Gly	Gly	Phe	Gly	Gly	Gly	Tyr	Gly	Ser		
							115	120			125				
Gly	Phe	Gly	Gly	Leu	Gly	Gly	Phe	Gly	Gly	Ala	Gly	Gly	Gly	Asp	
							130	135		140					
Gly	Gly	Ile	Leu	Thr	Ala	Asn	Glu	Lys	Ser	Thr	Met	Gln	Glu	Leu	Asn
							145	150			155				160
Ser	Arg	Leu	Ala	Ser	Tyr	Leu	Asp	Lys	Val	Gln	Ala	Leu	Glu	Glu	Ala
									165	170			175		
Asn	Asn	Asp	Leu	Glu	Asn	Lys	Ile	Gln	Asp	Trp	Tyr	Asp	Lys	Lys	Gly
							180		185				190		
Pro	Ala	Ala	Ile	Gln	Lys	Asn	Tyr	Ser	Pro	Tyr	Tyr	Asn	Thr	Ile	Asp

## Siemens 0022 Seq Listing.txt

195															
Asp	Leu	Lys	Asp	Gln	Ile	Val	Asp	Leu	Thr	Val	Gly	Asn	Asn	Lys	Thr
210					215					220					
Leu	Leu	Asp	Ile	Asp	Asn	Thr	Arg	Met	Thr	Leu	Asp	Asp	Phe	Arg	Ile
225					230					235					240
Lys	Phe	Glu	Met	Glu	Gln	Asn	Leu	Arg	Gln	Gly	Val	Asp	Ala	Asp	Ile
					245				250						255
Asn	Gly	Leu	Arg	Gln	val	Leu	Asp	Asn	Leu	Thr	Met	Glu	Lys	Ser	Asp
					260			265			270				
Leu	Glu	Met	Gln	Tyr	Glu	Thr	Leu	Gln	Glu	Glu	Leu	Met	Ala	Leu	Lys
					275			280			285				
Lys	Asn	His	Lys	Glu	Glu	Met	Ser	Gln	Leu	Thr	Gly	Gln	Asn	Ser	Gly
					290			295			300				
Asp	Val	Asn	Val	Glu	Ile	Asn	Val	Ala	Pro	Gly	Lys	Asp	Leu	Thr	Lys
305					310				315						320
Thr	Leu	Asn	Asp	Met	Arg	Gln	Glu	Tyr	Glu	Gln	Leu	Ile	Ala	Lys	Asn
					325			330			335				
Arg	Lys	Asp	Ile	Glu	Asn	Gln	Tyr	Glu	Thr	Gln	Ile	Thr	Gln	Ile	Glu
				340			345			350					
His	Glu	Val	Ser	Ser	Ser	Gly	Gln	Glu	Val	Gln	Ser	Ser	Ala	Lys	Glu
					355			360			365				
Val	Thr	Gln	Leu	Arg	His	Gly	Val	Gln	Glu	Leu	Glu	Ile	Glu	Leu	Gln
					370			375			380				
Ser	Gln	Leu	Ser	Lys	Lys	Ala	Ala	Leu	Glu	Lys	Ser	Leu	Glu	Asp	Thr
385					390				395						400
Lys	Asn	Arg	Tyr	Cys	Gly	Gln	Leu	Gln	Met	Ile	Gln	Glu	Gln	Ile	Ser
					405				410						415
Asn	Leu	Glu	Ala	Gln	Ile	Thr	Asp	Val	Arg	Gln	Glu	Ile	Glu	Cys	Gln
					420			425			430				
Asn	Gln	Glu	Tyr	Ser	Leu	Leu	Leu	Ser	Ile	Lys	Met	Arg	Leu	Glu	Lys
					435			440			445				
Glu	Ile	Glu	Thr	Tyr	His	Asn	Leu	Leu	Glu	Gly	Gly	Gln	Glu	Asp	Phe
					450			455			460				
Glu	Ser	Ser	Gly	Ala	Gly	Lys	Ile	Gly	Leu	Gly	Gly	Arg	Gly	Gly	Ser
465					470				475						480
Gly	Gly	Ser	Tyr	Gly	Arg	Gly	Ser	Arg	Gly	Gly	Ser	Gly	Gly	Ser	Tyr
					485			490			495				
Gly	Gly	Gly	Gly	Ser	Gly	Gly	Tyr	Gly	Gly	Gly	Ser	Gly	Ser	Arg	
				500			505			510					
Gly	Gly	Ser	Gly	Gly	Ser	Tyr	Gly	Gly	Ser	Gly	Ser	Gly	Gly	Gly	
					515			520			525				
Ser	Gly	Gly	Tyr	Gly	Gly	Ser	Gly	Gly	Gly	His	Ser	Gly	Gly		
					530			535			540				
Ser	Gly	Gly	Gly	His	Ser	Gly	Gly	Ser	Gly	Gly	Asn	Tyr	Gly	Gly	
					545			550			555				560
Ser	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Tyr	Gly	Gly	Ser	Gly			
					565			570			575				
Ser	Arg	Gly	Gly	Ser	Gly	Gly	Ser	His	Gly	Gly	Ser	Gly	Phe	Gly	
					580			585			590				
Gly	Glu	Ser	Gly	Gly	Ser	Tyr	Gly	Gly	Glu	Glu	Ala	Ser	Gly	Ser	
					595			600			605				
Gly	Gly	Gly	Tyr	Gly	Gly	Ser	Gly	Lys	Ser	Ser	His	Ser			
					610			615			620				

&lt;210&gt; 439

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 439  
 Met Thr Thr Cys Ser Arg Gln Phe Thr Ser Ser Ser Ser Met Lys Gly  
 1 5 10 15  
 Ser Cys Gly Ile Gly Gly Gly Ile Gly Gly Ser Ser Arg Ile Ser  
 20 25 30  
 Ser Val Leu Ala Gly Gly Ser Cys Arg Ala Pro Ser Thr Tyr Gly Gly  
 35 40 45  
 Gly Leu Ser Val Ser Ser Arg Phe Ser Ser Gly Gly Ala Tyr Gly  
 50 55 60  
 Leu Gly Gly Tyr Gly Gly Phe Ser Ser Ser Ser Ser Phe  
 65 70 75 80  
 Gly Ser Gly Phe Gly Gly Tyr Gly Gly Leu Gly Ala Gly Leu  
 85 90 95  
 Gly Gly Gly Phe Gly Gly Phe Ala Gly Gly Asp Gly Leu Leu Val  
 100 105 110  
 Gly Ser Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser  
 115 120 125  
 Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp Leu Glu  
 130 135 140  
 Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Arg Pro Ala Glu Ile Lys  
 145 150 155 160  
 Asp Tyr Ser Pro Tyr Phe Lys Thr Ile Glu Asp Leu Arg Asn Lys Ile  
 165 170 175  
 Leu Thr Ala Thr Val Asp Asn Ala Asn Val Leu Leu Gln Ile Asp Asn  
 180 185 190  
 Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Tyr Glu Thr Glu Leu  
 195 200 205  
 Asn Leu Arg Met Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val  
 210 215 220  
 Leu Asp Glu Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile Glu  
 225 230 235 240  
 Ser Leu Lys Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu  
 245 250 255  
 Met Asn Ala Leu Arg Gly Gln Val Gly Gly Asp Val Asn Val Glu Met  
 260 265 270  
 Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu Met Arg  
 275 280 285  
 Asp Gln Tyr Glu Lys Met Ala Glu Lys Asn Arg Lys Asp Ala Glu Glu  
 290 295 300  
 Trp Phe Phe Thr Lys Thr Glu Glu Leu Asn Arg Glu Val Ala Thr Asn  
 305 310 315 320  
 Ser Glu Leu Val Gln Ser Gly Lys Ser Glu Ile Ser Glu Leu Arg Arg  
 325 330 335  
 Thr Met Gln Asn Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys  
 340 345 350  
 Ala Ser Leu Glu Asn Ser Leu Glu Glu Thr Lys Gly Arg Tyr Cys Met  
 355 360 365  
 Gln Leu Ala Gln Ile Gln Glu Met Ile Gly Ser Val Glu Glu Gln Leu  
 370 375 380  
 Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Asn Gln Glu Tyr Lys Ile  
 385 390 395 400  
 Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg  
 405 410 415  
 Arg Leu Leu Glu Gly Glu Asp Ala His Leu Ser Ser Ser Gln Phe Ser  
 420 425 430  
 Ser Gly Ser Gln Ser Ser Arg Asp Val Thr Ser Ser Ser Arg Gln Ile  
 435 440 445  
 Arg Thr Lys Val Met Asp Val His Asp Gly Lys Val Val Ser Thr His  
 450 455 460  
 Glu Gln Val Leu Arg Thr Lys Asn  
 465 470

Siemens 0022 Seq Listing.txt

<210> 440  
<211> 473  
<212> PRT  
<213> Homo sapiens

<400> 440  
Met Thr Thr Cys Ser Arg Gln Phe Thr Ser Ser Ser Met Lys Gly  
1 5 10 15  
Ser Cys Gly Ile Gly Gly Ile Gly Gly Ser Ser Arg Ile Ser  
20 25 30  
Ser Val Leu Ala Gly Gly Ser Cys Arg Ala Pro Ser Thr Tyr Gly Gly  
35 40 45  
Gly Leu Ser Val Ser Ser Arg Phe Ser Ser Gly Gly Ala Cys Gly Leu  
50 55 60  
Gly Gly Gly Tyr Gly Gly Phe Ser Ser Ser Ser Phe Gly Ser  
65 70 75 80  
Gly Phe Gly Gly Tyr Gly Gly Leu Gly Ala Gly Phe Gly Gly  
85 90 95  
Gly Leu Gly Ala Gly Phe Gly Gly Phe Ala Gly Gly Asp Gly Leu  
100 105 110  
Leu Val Gly Ser Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu  
115 120 125  
Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp  
130 135 140  
Leu Glu Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Arg Pro Ser Glu  
145 150 155 160  
Ile Lys Asp Tyr Ser Pro Tyr Phe Lys Thr Ile Glu Asp Leu Arg Asn  
165 170 175  
Lys Ile Ile Ala Ala Thr Ile Glu Asn Ala Gln Pro Ile Leu Gln Ile  
180 185 190  
Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Tyr Glu His  
195 200 205  
Glu Leu Ala Leu Arg Gln Thr Val Glu Ala Asp Val Asn Gly Leu Arg  
210 215 220  
Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln  
225 230 235 240  
Ile Glu Gly Leu Lys Glu Glu Leu Ala Tyr Leu Arg Lys Asn His Glu  
245 250 255  
Glu Glu Met Leu Ala Leu Arg Gly Gln Thr Gly Gly Asp Val Asn Val  
260 265 270  
Glu Met Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu  
275 280 285  
Met Arg Asp Gln Tyr Glu Gln Met Ala Glu Lys Asn Arg Arg Asp Ala  
290 295 300  
Glu Thr Trp Phe Leu Ser Lys Thr Glu Glu Leu Asn Lys Glu Val Ala  
305 310 315 320  
Ser Asn Ser Glu Leu Val Gln Ser Ser Arg Ser Glu Val Thr Glu Leu  
325 330 335  
Arg Arg Val Leu Gln Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser  
340 345 350  
Met Lys Ala Ser Leu Glu Asn Ser Leu Glu Glu Thr Lys Gly Arg Tyr  
355 360 365  
Cys Met Gln Leu Ser Gln Ile Gln Gly Leu Ile Gly Ser Val Glu Glu  
370 375 380  
Gln Leu Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Ser Gln Glu Tyr  
385 390 395 400

Siemens 0022 Seq Listing.txt

Gln Ile Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr  
405 410 415  
Tyr Arg Arg Leu Leu Glu Gly Glu Asp Ala His Leu Ser Ser Gln Gln  
420 425 430  
Ala Ser Gly Gln Ser Tyr Ser Ser Arg Glu Val Phe Thr Ser Ser Ser  
435 440 445  
Ser Ser Ser Arg Gln Thr Arg Pro Ile Leu Lys Glu Gln Ser Ser  
450 455 460  
Ser Ser Phe Ser Gln Gly Gln Ser Ser  
465 470

<210> 441

<211> 432

<212> PRT

<213> Homo sapiens

<400> 441  
Met Thr Thr Ser Ile Arg Gln Phe Thr Ser Ser Ser Ile Lys Gly  
1 5 10 15  
Ser Ser Gly Leu Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser  
20 25 30  
Gly Gly Leu Gly Ala Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu  
35 40 45  
Gly Ser Thr Leu Gly Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly  
50 55 60  
Ser Gly Gly Gly Tyr Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu  
65 70 75 80  
Ala Gly Gly Glu Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala  
85 90 95  
Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu  
100 105 110  
Glu Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Ala Pro Gly Pro Ala  
115 120 125  
Arg Asp Tyr Ser Gln Tyr Tyr Arg Thr Ile Glu Glu Leu Gln Asn Lys  
130 135 140  
Ile Leu Thr Ala Thr Val Asp Asn Ala Asn Ile Leu Leu Gln Ile Asp  
145 150 155 160  
Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu  
165 170 175  
Gln Ala Leu Arg Leu Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg  
180 185 190  
Val Leu Asp Glu Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile  
195 200 205  
Glu Asn Leu Lys Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu  
210 215 220  
Glu Met Asn Ala Leu Arg Gly Gln Val Gly Gly Glu Ile Asn Val Glu  
225 230 235 240  
Met Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu Met  
245 250 255  
Arg Asp Gln Tyr Glu Lys Met Ala Glu Lys Asn Arg Lys Asp Ala Glu  
260 265 270  
Asp Trp Phe Phe Ser Lys Thr Glu Glu Leu Asn Arg Glu Val Ala Thr  
275 280 285  
Asn Ser Glu Leu Val Gln Ser Gly Lys Ser Glu Ile Ser Glu Leu Arg  
290 295 300  
Arg Thr Met Gln Ala Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met  
305 310 315 320

Siemens 0022 Seq Listing.txt

Lys Ala Ser Leu Glu Gly Asn Leu Ala Glu Thr Glu Asn Arg Tyr Cys  
325 330 335  
Val Gln Leu Ser Gln Ile Gln Gly Leu Ile Gly Ser Val Glu Glu Gln  
340 345 350  
Leu Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Asn Gln Glu Tyr Lys  
355 360 365  
Ile Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr  
370 375 380  
Arg Arg Leu Leu Glu Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys  
385 390 395 400  
Glu Pro Val Thr Thr Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln  
405 410 415  
Asp Gly Lys Val Ile Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg  
420 425 430

<210> 442

<211> 469

<212> PRT

<213> Homo sapiens

<400> 442

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala  
1 5 10 15  
Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly  
20 25 30  
Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg  
35 40 45  
Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg  
50 55 60  
Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala  
65 70 75 80  
Asp Pro Ser Leu Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys  
85 90 95  
Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu  
100 105 110  
Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu  
115 120 125  
Gln Lys Ser Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln  
130 135 140  
Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly  
145 150 155 160  
Arg Leu Glu Ala Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe  
165 170 175  
Lys Asn Lys Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn  
180 185 190  
Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys  
195 200 205  
Val Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe  
210 215 220  
Leu Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile  
225 230 235 240  
Ser Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp  
245 250 255  
Leu Asp Gly Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala  
260 265 270  
Lys Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu  
275 280 285

Siemens 0022 Seq Listing.txt

Thr Leu Gln Ala Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr  
 290 295 300  
 Arg Asn Glu Ile Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala  
 305 310 315 320  
 Glu Ile Asp Asn Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile  
 325 330 335  
 Ala Glu Ala Glu Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala  
 340 345 350  
 Lys Gln Glu Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met  
 355 360 365  
 Ala Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala  
 370 375 380  
 Leu Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu  
 385 390 395 400  
 Ser Arg Leu Ala Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met  
 405 410 415  
 Asn Ser Thr Gly Gly Ser Ser Gly Gly Ile Gly Leu Thr Leu  
 420 425 430  
 Gly Gly Thr Met Gly Ser Asn Ala Leu Ser Phe Ser Ser Ala Gly  
 435 440 445  
 Pro Gly Leu Leu Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg  
 450 455 460  
 Arg Ser Ala Arg Asp  
 465

<210> 443

<211> 486

<212> PRT

<213> Homo sapiens

<400> 443  
 Met Thr Cys Gly Ser Tyr Cys Gly Gly Arg Ala Phe Ser Cys Ile Ser  
 1 5 10 15  
 Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr  
 20 25 30  
 Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His  
 35 40 45  
 Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly  
 50 55 60  
 Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr  
 65 70 75 80  
 Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp  
 85 90 95  
 Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser  
 100 105 110  
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu  
 115 120 125  
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg  
 130 135 140  
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu  
 145 150 155 160  
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu  
 165 170 175  
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys  
 180 185 190  
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe  
 195 200 205

Siemens 0022 Seq Listing.txt

Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp  
 210 215 220  
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg  
 225 230 235 240  
 Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ser His Ile Ser Asp  
 245 250 255  
 Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp  
 260 265 270  
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg  
 275 280 285  
 Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met  
 290 295 300  
 Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu  
 305 310 315 320  
 Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val  
 325 330 335  
 Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln  
 340 345 350  
 Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu  
 355 360 365  
 Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys  
 370 375 380  
 Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp  
 385 390 395 400  
 Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg  
 405 410 415  
 Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Ser Arg  
 420 425 430  
 Gly Gly Val Val Cys Gly Asp Leu Cys Ala Ser Thr Thr Ala Pro Val  
 435 440 445  
 Val Ser Thr Arg Val Ser Ser Val Pro Ser Asn Ser Asn Val Val Val  
 450 455 460  
 Gly Thr Thr Asn Ala Cys Ala Pro Ser Ala Arg Val Gly Val Cys Gly  
 465 470 475 480  
 Gly Ser Cys Lys Arg Cys  
 485

<210> 444

<211> 111

<212> PRT

<213> Homo sapiens

<400> 444  
 Met Lys Ala Thr Val Ile Trp His Gly Glu Thr Val Gly Cys Thr Lys  
 1 5 10 15  
 Glu Glu Ile Lys Glu Leu Thr His Met Ile Gln Arg Leu Met Ala Lys  
 20 25 30  
 Val Glu Asn Ala Lys Cys Gln Val Trp Gly Ile Cys Ala Gln Gly Gln  
 35 40 45  
 Arg Asp Leu Trp Pro Asn Leu Cys His Thr Ala Tyr Val Cys Pro Thr  
 50 55 60  
 Trp Ile Ser Ala Phe Ile Leu Gln Ser Leu Cys Pro Cys Arg Val Pro  
 65 70 75 80  
 Gly Cys Gly Gln Ser Gly Ser Ala Arg Met Met Lys Ala Arg Gly Leu  
 85 90 95  
 Phe Leu Arg Cys Ser Gln Leu Asn Gly Arg Leu Asp Ile Phe Arg  
 100 105 110

Siemens 0022 Seq Listing.txt

<210> 445  
<211> 505  
<212> PRT  
<213> Homo sapiens

<400> 445  
Met Thr Cys Gly Ser Gly Phe Gly Gly Arg Ala Phe Ser Cys Ile Ser  
1 5 10 15  
Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr  
20 25 30  
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His  
35 40 45  
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly  
50 55 60  
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr  
65 70 75 80  
Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp  
85 90 95  
Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser  
100 105 110  
Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu  
115 120 125  
Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg  
130 135 140  
Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu  
145 150 155 160  
Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu  
165 170 175  
Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys  
180 185 190  
Lys Tyr Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe  
195 200 205  
Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp  
210 215 220  
Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg  
225 230 235 240  
Arg Leu Tyr Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp  
245 250 255  
Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp  
260 265 270  
Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg  
275 280 285  
Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met  
290 295 300  
Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu  
305 310 315 320  
Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val  
325 330 335  
Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln  
340 345 350  
Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu  
355 360 365  
Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys  
370 375 380  
Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp  
385 390 395 400

Siemens 0022 Seq Listing.txt

Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg  
 405 410 415  
 Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg  
 420 425 430  
 Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val  
 435 440 445  
 Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser  
 450 455 460  
 Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly  
 465 470 475 480  
 Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly  
 485 490 495  
 Ser Cys Gly Ser Ser Cys Arg Lys Cys  
 500 505

<210> 446

<211> 486

<212> PRT

<213> Homo sapiens

<400> 446

Met Thr Cys Gly Ser Tyr Cys Gly Gly Arg Ala Phe Ser Cys Ile Ser  
 1 5 10 15  
 Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr  
 20 25 30  
 Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His  
 35 40 45  
 Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly  
 50 55 60  
 Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr  
 65 70 75 80  
 Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp  
 85 90 95  
 Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser  
 100 105 110  
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu  
 115 120 125  
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg  
 130 135 140  
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu  
 145 150 155 160  
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu  
 165 170 175  
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys  
 180 185 190  
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe  
 195 200 205  
 Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp  
 210 215 220  
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg  
 225 230 235 240  
 Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ser His Ile Ser Asp  
 245 250 255  
 Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp  
 260 265 270  
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg  
 275 280 285

Siemens 0022 Seq Listing.txt

Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met  
 290 295 300  
 Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu  
 305 310 315 320  
 Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val  
 325 330 335  
 Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln  
 340 345 350  
 Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu  
 355 360 365  
 Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys  
 370 375 380  
 Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp  
 385 390 395 400  
 Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Gln Arg  
 405 410 415  
 Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Arg  
 420 425 430  
 Gly Gly Val Val Cys Gly Asp Leu Cys Ala Ser Thr Thr Ala Pro Val  
 435 440 445  
 Val Ser Thr Arg Val Ser Ser Val Pro Ser Asn Ser Asn Val Val Val  
 450 455 460  
 Gly Thr Thr Asn Ala Cys Ala Pro Ser Ala Arg Val Gly Val Cys Gly  
 465 470 475 480  
 Gly Ser Cys Lys Arg Cys  
 485

<210> 447

<211> 493

<212> PRT

<213> Homo sapiens

<400> 447

Met Thr Cys Gly Phe Asn Ser Ile Gly Cys Gly Phe Arg Pro Gly Asn  
 1 5 10 15  
 Phe Ser Cys Val Ser Ala Cys Gly Pro Arg Pro Ser Arg Cys Cys Ile  
 20 25 30  
 Thr Ala Ala Pro Tyr Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly  
 35 40 45  
 Gly Phe Gly Ser His Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys  
 50 55 60  
 Gly Arg Ser Phe Gly Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro  
 65 70 75 80  
 Pro Cys Ile Thr Thr Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu  
 85 90 95  
 Asn Leu Glu Ile Asp Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys  
 100 105 110  
 Glu Gln Ile Lys Ser Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys  
 115 120 125  
 Val Arg Phe Leu Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln  
 130 135 140  
 Phe Tyr Gln Asn Cys Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe  
 145 150 155 160  
 Ala Gly Tyr Ile Glu Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala  
 165 170 175  
 Asp Ser Gly Arg Leu Ala Ser Glu Leu Asn His Val Gln Glu Val Leu  
 180 185 190

Siemens 0022 Seq Listing.txt

Glu	Gly	Tyr	Lys	Lys	Tyr	Glu	Glu	Glu	Val	Ala	Leu	Arg	Ala	Thr	
195						200					205				
Ala	Glu	Asn	Glu	Phe	Val	Ala	Leu	Lys	Lys	Asp	Val	Asp	Cys	Ala	Tyr
210						215					220				
Leu	Arg	Lys	Ser	Asp	Leu	Glu	Ala	Asn	Val	Glu	Ala	Leu	Ile	Gln	Glu
225						230				235				240	
Ile	Asp	Phe	Leu	Arg	Arg	Leu	Tyr	Glu	Glu	Glu	Ile	Arg	Ile	Leu	Gln
						245			250			255			
Ser	His	Ile	Ser	Asp	Thr	Ser	Val	Val	Val	Lys	Leu	Asp	Asn	Ser	Arg
						260		265				270			
Asp	Leu	Asn	Met	Asp	Cys	Ile	Val	Ala	Glu	Ile	Lys	Ala	Gln	Tyr	Asp
						275		280			285				
Asp	Ile	Ala	Thr	Arg	Ser	Arg	Ala	Glu	Ala	Glu	Ser	Trp	Tyr	Arg	Ser
						290		295			300				
Lys	Cys	Glu	Glu	Met	Lys	Ala	Thr	Val	Ile	Arg	His	Gly	Glu	Thr	Leu
305						310			315			320			
Arg	Arg	Thr	Lys	Glu	Glu	Ile	Asn	Glu	Leu	Asn	Arg	Met	Ile	Gln	Arg
						325			330			335			
Leu	Thr	Ala	Glu	Val	Glu	Asn	Ala	Lys	Cys	Gln	Asn	Ser	Lys	Leu	Glu
						340		345			350				
Ala	Ala	Val	Ala	Gln	Ser	Glu	Gln	Gly	Glu	Ala	Ala	Leu	Ser	Asp	
						355		360			365				
Ala	Arg	Cys	Lys	Leu	Ala	Glu	Leu	Glu	Gly	Ala	Leu	Gln	Lys	Ala	Lys
						370		375			380				
Gln	Asp	Met	Ala	Cys	Leu	Ile	Arg	Glu	Tyr	Gln	Glu	Val	Met	Asn	Ser
385						390			395			400			
Lys	Leu	Gly	Leu	Asp	Ile	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu
						405		410			415				
Gly	Glu	Glu	Gln	Arg	Leu	Cys	Glu	Gly	Val	Glu	Ala	Val	Asn	Val	Cys
						420		425			430				
val	Ser	Ser	Ser	Arg	Gly	Gly	Val	Val	Cys	Gly	Asp	Leu	Cys	Val	Ser
						435		440			445				
Gly	Ser	Arg	Pro	Val	Thr	Gly	Ser	Val	Cys	Ser	Ala	Pro	Cys	Asn	Gly
						450		455			460				
Asn	Leu	Val	Val	Ser	Thr	Gly	Leu	Cys	Lys	Pro	Cys	Gly	Gln	Leu	Asn
465						470			475			480			
Thr	Thr	Cys	Gly	Gly	Gly	Ser	Cys	Gly	Gln	Gly	Arg	Tyr			
						485			490						

<210> 448

<211> 143

<212> PRT

<213> Homo sapiens

<400> 448

Met	Ala	Ser	Gln	Ser	Cys	His	Ile	Ser	Ser	Gly	Cys	Gly	Val	Lys	Asn
1						5			10			15			
Phe	Ser	Ser	Arg	Ser	Ala	Thr	Val	Pro	Lys	Pro	Gly	Tyr	His	Ser	Cys
						20		25			30				
val	Ser	Ala	Met	Ala	His	His	Gly	Val	Ser	Pro	Gly	Gly	Leu	Gly	Ser
						35		40			45				
Arg	Arg	Leu	Gly	Gly	Phe	Gly	Ser	Gln	Ser	Leu	Cys	Thr	Val	Gly	Ser
						50		55			60				
Pro	Arg	Ile	Ala	Val	Ser	Cys	Arg	Trp	Pro	Leu	His	Ser	Arg	Gly	Arg
65						70			75			80			
Phe	Gly	Tyr	Trp	Ala	Gly	Gly	Leu	Cys	Arg	Pro	Ser	Pro	Pro	Arg	Ile
						85			90			95			

## Siemens 0022 Seq Listing.txt

Thr Ser Val Thr Ile Asn Glu Ser Leu Leu Met Pro Leu Asn Leu Glu  
 100 105 110  
 Ile Asp Pro Asn Ala Gln Cys Val Lys His Glu Glu Lys Glu His Ile  
 115 120 125  
 Arg Cys Leu Asn Lys Phe Ala Ala Phe Ile Asp Lys Val Gly Leu  
 130 135 140

&lt;210&gt; 449

&lt;211&gt; 507

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

Met Ser Cys Arg Ser Tyr Arg Ile Ser Ser Gly Cys Gly Val Thr Arg  
 1 5 10 15  
 Asn Phe Ser Ser Cys Ser Ala Val Ala Pro Lys Thr Gly Asn Arg Cys  
 20 25 30  
 Cys Ile Ser Ala Ala Pro Tyr Arg Gly Val Ser Cys Tyr Arg Gly Leu  
 35 40 45  
 Thr Gly Phe Gly Ser Arg Ser Leu Cys Asn Leu Gly Ser Cys Gly Pro  
 50 55 60  
 Arg Ile Ala Val Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe  
 65 70 75 80  
 Gly Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr  
 85 90 95  
 Thr Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile  
 100 105 110  
 Asp Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys  
 115 120 125  
 Ser Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu  
 130 135 140  
 Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Gln Phe Tyr Gln Asn  
 145 150 155 160  
 Gln Arg Cys Cys Glu Ser Asn Leu Glu Pro Leu Phe Ser Gly Tyr Ile  
 165 170 175  
 Glu Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg  
 180 185 190  
 Leu Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys  
 195 200 205  
 Lys Lys Tyr Glu Glu Glu Val Ala Leu Arg Ala Thr Ala Glu Asn Glu  
 210 215 220  
 Phe Val Val Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser  
 225 230 235 240  
 Asp Leu Glu Ala Asn Val Glu Ala Leu Val Glu Glu Ser Ser Phe Leu  
 245 250 255  
 Arg Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ala His Ile Ser  
 260 265 270  
 Asp Thr Ser Val Ile Val Lys Met Asp Asn Ser Arg Asp Leu Asn Met  
 275 280 285  
 Asp Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Val Ala Ser  
 290 295 300  
 Arg Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu  
 305 310 315 320  
 Met Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys  
 325 330 335  
 Glu Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu  
 340 345 350

Siemens 0022 Seq Listing.txt

Ile Glu Asn Ala Lys Cys Gln Arg Ala Lys Leu Glu Ala Ala Val Ala  
355 360 365  
Glu Ala Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys  
370 375 380  
Leu Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala  
385 390 395 400  
Cys Leu Leu Lys Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu  
405 410 415  
Asp Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu His  
420 425 430  
Arg Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Ser  
435 440 445  
Arg Gly Gly Val Ser Cys Gly Gly Leu Ser Tyr Ser Thr Thr Pro Gly  
450 455 460  
Arg Gln Ile Thr Ser Gly Pro Ser Ala Ile Gly Gly Ser Ile Thr Val  
465 470 475 480  
Val Ala Pro Asp Ser Cys Ala Pro Cys Gln Pro Arg Ser Ser Ser Phe  
485 490 495  
Ser Cys Gly Ser Ser Arg Ser Val Arg Phe Ala  
500 505

<210> 450

<211> 600

<212> PRT

<213> Homo sapiens

<400> 450  
Met Ser Cys Arg Ser Tyr Arg Val Ser Ser Gly His Arg Val Gly Asn  
1 5 10 15  
Phe Ser Ser Cys Ser Ala Met Thr Pro Gln Asn Leu Asn Arg Phe Arg  
20 25 30  
Ala Asn Ser Val Ser Cys Trp Ser Gly Pro Gly Phe Arg Gly Leu Gly  
35 40 45  
Ser Phe Gly Ser Arg Ser Val Ile Thr Phe Gly Ser Tyr Ser Pro Arg  
50 55 60  
Ile Ala Ala Val Gly Ser Arg Pro Ile His Cys Gly Val Arg Phe Gly  
65 70 75 80  
Ala Gly Cys Gly Met Gly Phe Gly Asp Gly Arg Gly Val Gly Leu Gly  
85 90 95  
Pro Arg Ala Asp Ser Cys Val Gly Leu Gly Phe Gly Ala Gly Ser Gly  
100 105 110  
Ile Gly Tyr Gly Phe Gly Gly Pro Gly Phe Gly Tyr Arg Val Gly Gly  
115 120 125  
Val Gly Val Pro Ala Ala Pro Ser Ile Thr Ala Val Thr Val Asn Lys  
130 135 140  
Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp Pro Asn Ala Gln Arg  
145 150 155 160  
Val Lys Lys Asp Glu Lys Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe  
165 170 175  
Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Leu  
180 185 190  
Leu Glu Thr Lys Trp Ser Phe Leu Gln Glu Gln Lys Cys Ile Arg Ser  
195 200 205  
Asn Leu Glu Pro Leu Phe Glu Ser Tyr Ile Thr Asn Leu Arg Arg Gln  
210 215 220  
Leu Glu Val Leu Val Ser Asp Gln Ala Arg Leu Gln Ala Glu Arg Asn  
225 230 235 240

Siemens 0022 Seq Listing.txt

His	Leu	Gln	Asp	Val	Leu	Glu	Gly	Phe	Lys	Lys	Lys	Tyr	Glu	Glu	Glu
					245				250						255
val	Val	Cys	Arg	Ala	Asn	Ala	Glu	Asn	Glu	Phe	Val	Ala	Leu	Lys	Lys
					260				265						270
Asp	Val	Asp	Ala	Ala	Phe	Met	Asn	Lys	Ser	Asp	Leu	Glu	Ala	Asn	Val
					275				280						285
Asp	Thr	Leu	Thr	Gln	Glu	Ile	Asp	Phe	Leu	Lys	Thr	Leu	Tyr	Met	Glu
					290				295						300
Glu	Ile	Gln	Leu	Leu	Gln	Ser	His	Ile	Ser	Glu	Thr	Ser	Val	Ile	Val
					305				310						320
Lys	Met	Asp	Asn	Ser	Arg	Asp	Leu	Asn	Leu	Asp	Gly	Ile	Ile	Ala	Glu
					325				330						335
Val	Lys	Ala	Gln	Tyr	Glu	Glu	Val	Ala	Arg	Arg	Ser	Arg	Ala	Asp	Ala
					340				345						350
Glu	Ala	Trp	Tyr	Gln	Thr	Lys	Tyr	Glu	Glu	Met	Gln	Val	Thr	Ala	Gly
					355				360						365
Gln	His	Cys	Asp	Asn	Leu	Arg	Asn	Ile	Arg	Asn	Glu	Ile	Asn	Glu	Leu
					370				375						380
Thr	Arg	Leu	Ile	Gln	Arg	Leu	Lys	Ala	Glu	Ile	Glu	His	Ala	Lys	Ala
					385				390						400
Gln	Arg	Ala	Lys	Leu	Glu	Ala	Ala	Val	Ala	Glu	Ala	Glu	Gln	Gln	Gly
					405				410						415
Glu	Ala	Thr	Leu	Ser	Asp	Ala	Lys	Cys	Lys	Leu	Ala	Asp	Leu	Glu	Cys
					420				425						430
Ala	Leu	Gln	Gln	Ala	Lys	Gln	Asp	Met	Ala	Arg	Gln	Leu	Cys	Glu	Tyr
					435				440						445
Gln	Glu	Leu	Met	Asn	Ala	Lys	Leu	Gly	Leu	Asp	Ile	Glu	Ile	Ala	Thr
					450				455						460
Tyr	Arg	Arg	Leu	Leu	Glu	Gly	Glu	Ser	Arg	Leu	Cys	Glu	Gly	Val	
					465				470						480
Gly	Pro	Val	Asn	Ile	Ser	Val	Ser	Ser	Ser	Arg	Gly	Gly	Leu	Val	Cys
					485				490						495
Gly	Pro	Glu	Pro	Leu	Val	Ala	Gly	Ser	Thr	Leu	Ser	Arg	Gly	Gly	Val
					500				505						510
Thr	Phe	Ser	Gly	Ser	Ser	Ser	Val	Cys	Ala	Thr	Ser	Gly	Val	Leu	Ala
					515				520						525
Ser	Cys	Gly	Pro	Ser	Leu	Gly	Gly	Ala	Arg	Val	Ala	Pro	Ala	Thr	Gly
					530				535						540
Asp	Leu	Leu	Ser	Thr	Gly	Thr	Arg	Ser	Gly	Ser	Met	Leu	Ile	Ser	Glu
					545				550						560
Ala	Cys	Val	Pro	Ser	Val	Pro	Cys	Pro	Leu	Pro	Thr	Gln	Gly	Gly	Phe
					565				570						575
Ser	Ser	Cys	Ser	Gly	Gly	Arg	Ser	Ser	Ser	Val	Arg	Phe	Val	Ser	Thr
					580				585						590
Thr	Thr	Ser	Cys	Arg	Thr	Lys	Tyr								
					595				600						

<210> 451

<211> 513

<212> PRT

<213> Homo sapiens

<400> 451

Met	Ser	Tyr	His	Ser	Phe	Gln	Pro	Gly	Ser	Arg	Cys	Gly	Ser	Gln	Ser
1															15
Phe	Ser	Ser	Tyr	Ser	Ala	Val	Met	Pro	Arg	Met	Val	Thr	His	Tyr	Ala
					20				25						30

Siemens 0022 Seq Listing.txt

Val	Ser	Lys	Gly	Pro	Cys	Arg	Pro	Gly	Gly	Gly	Arg	Gly	Leu	Arg	Ala
35							40				45				
Leu	Gly	Cys	Leu	Gly	Ser	Arg	Ser	Leu	Cys	Asn	Val	Gly	Phe	Gly	Arg
50					55					60					
Pro	Arg	Val	Ala	Ser	Arg	Cys	Gly	Gly	Thr	Leu	Pro	Gly	Phe	Gly	Tyr
65					70				75				80		
Arg	Leu	Gly	Ala	Thr	Cys	Gly	Pro	Ser	Ala	Cys	Ile	Thr	Pro	Val	Thr
							85			90			95		
Ile	Asn	Glu	Ser	Leu	Leu	Val	Pro	Leu	Ala	Leu	Glu	Ile	Asp	Pro	Thr
						100			105				110		
Val	Gln	Arg	Val	Lys	Arg	Asp	Glu	Lys	Glu	Gln	Ile	Lys	Cys	Leu	Asn
							115		120			125			
Asn	Arg	Phe	Ala	Ser	Phe	Ile	Asn	Lys	Val	Arg	Phe	Leu	Glu	Gln	Lys
							130		135			140			
Asn	Lys	Leu	Leu	Glu	Thr	Lys	Trp	Asn	Phe	Met	Gln	Gln	Gln	Arg	Cys
145						150				155				160	
Cys	Gln	Thr	Asn	Ile	Glu	Pro	Ile	Phe	Glu	Gly	Tyr	Ile	Ser	Ala	Leu
							165		170				175		
Arg	Arg	Gln	Leu	Asp	Cys	Val	Ser	Gly	Asp	Arg	Val	Arg	Leu	Glu	Ser
							180		185				190		
Glu	Leu	Cys	Ser	Leu	Gln	Ala	Ala	Leu	Glu	Gly	Tyr	Lys	Lys	Tyr	
							195		200			205			
Glu	Glu	Glu	Leu	Ser	Leu	Arg	Pro	Cys	Val	Glu	Asn	Glu	Phe	Val	Ala
							210		215			220			
Leu	Lys	Lys	Asp	Val	Asp	Thr	Ala	Phe	Leu	Met	Lys	Ala	Asp	Leu	Glu
225							230			235				240	
Thr	Asn	Ala	Glu	Ala	Leu	Val	Gln	Glu	Ile	Asp	Phe	Leu	Lys	Ser	Leu
							245		250				255		
Tyr	Glu	Glu	Glu	Ile	Cys	Leu	Leu	Gln	Ser	Gln	Ile	Ser	Glu	Thr	Ser
							260		265				270		
Val	Ile	Val	Lys	Met	Asp	Asn	Ser	Arg	Glu	Leu	Asp	Val	Asp	Gly	Ile
							275		280				285		
Ile	Ala	Glu	Ile	Lys	Ala	Gln	Tyr	Asp	Asp	Ile	Ala	Ser	Arg	Ser	Lys
							290		295			300			
Ala	Glu	Ala	Glu	Ala	Trp	Tyr	Gln	Cys	Arg	Tyr	Glu	Glu	Leu	Arg	Val
305							310			315				320	
Thr	Ala	Gly	Asn	His	Cys	Asp	Asn	Leu	Arg	Asn	Arg	Lys	Asn	Glu	Ile
							325		330				335		
Leu	Glu	Met	Asn	Lys	Leu	Ile	Gln	Arg	Leu	Gln	Gln	Glu	Thr	Glu	Asn
							340		345			350			
Val	Lys	Ala	Gln	Arg	Cys	Lys	Leu	Glu	Gly	Ala	Ile	Ala	Glu	Ala	Glu
							355		360			365			
Gln	Gln	Gly	Glu	Ala	Ala	Leu	Asn	Asp	Ala	Lys	Cys	Lys	Leu	Ala	Gly
							370		375			380			
Leu	Glu	Glu	Ala	Leu	Gln	Lys	Ala	Lys	Gln	Asp	Met	Ala	Cys	Leu	Leu
385							390			395			400		
Lys	Glu	Tyr	Gln	Glu	Val	Met	Asn	Ser	Lys	Leu	Gly	Leu	Asp	Ile	Glu
							405		410				415		
Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	Gly	Glu	Glu	His	Arg	Leu	Cys
							420		425				430		
Glu	Gly	Ile	Gly	Pro	Val	Asn	Ile	Ser	Val	Ser	Ser	Ser	Lys	Gly	Ala
							435		440			445			
Phe	Leu	Tyr	Glu	Pro	Cys	Gly	Val	Ser	Thr	Pro	val	Leu	Ser	Thr	Gly
							450		455			460			
Val	Leu	Arg	Ser	Asn	Gly	Gly	Cys	Ser	Ile	val	Gly	Thr	Gly	Glu	Leu
465							470			475				480	
Tyr	Val	Pro	Cys	Glu	Pro	Gln	Gly	Leu	Leu	Ser	Cys	Gly	Ser	Gly	Arg
							485		490				495		
Lys	Ser	Ser	Met	Thr	Leu	Gly	Ala	Gly	Gly	Ser	Ser	Pro	Ser	His	Lys
							500		505				510		
His															

Siemens 0022 Seq Listing.txt

<210> 452

<211> 85

<212> PRT

<213> Homo sapiens

<400> 452

Met Asp Ala Val Tyr Met Asn Lys Val Gly Leu Glu Ala Lys Val Asp  
1 5 10 15  
Ala Leu Met Glu Glu Thr Asn Phe Leu Ser Thr Phe Tyr Lys Ala Val  
20 25 30  
Arg Val Pro Gly Ala Pro Ser Asn Arg Gly Ala Gly Trp Val Leu  
35 40 45  
Glu Pro Gln Leu Gly Thr Glu Pro Val Gly Ser Phe Pro Gly Leu Leu  
50 55 60  
Ser Ala Pro Tyr Pro Thr Cys Val Leu Gln Gly Arg Cys His Phe Pro  
65 70 75 80  
Tyr His Arg Arg Lys  
85

<210> 453

<211> 564

<212> PRT

<213> Homo sapiens

<400> 453

Met Ala Ser Thr Ser Thr Ile Arg Ser His Ser Ser Ser Arg Arg  
1 5 10 15  
Gly Phe Ser Ala Ser Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly  
20 25 30  
Phe Ser Ser Ile Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly  
35 40 45  
Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu  
50 55 60  
Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Ser Cys Ala Ile Ser  
65 70 75 80  
Gly Gly Tyr Gly Ser Arg Ala Gly Gly Ser Tyr Gly Phe Gly Gly Ala  
85 90 95  
Gly Ser Gly Phe Gly Gly Gly Ala Gly Ile Gly Phe Gly Leu  
100 105 110  
Gly Gly Gly Ala Gly Leu Ala Gly Gly Phe Gly Gly Pro Gly Phe Pro  
115 120 125  
Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu  
130 135 140  
Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ala Ile Gln Arg Val Arg  
145 150 155 160  
Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser  
165 170 175  
Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Asp  
180 185 190  
Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln  
195 200 205

Siemens\_0022(Seq Listing.txt)

Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln  
 210 215 220  
 Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg  
 225 230 235 240  
 Asn Met Gln Asp Leu Val Glu Asp Leu Lys Asn Lys Tyr Glu Asp Glu  
 245 250 255  
 Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys  
 260 265 270  
 Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala  
 275 280 285  
 Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala  
 290 295 300  
 Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu  
 305 310 315 320  
 Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu  
 325 330 335  
 Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala  
 340 345 350  
 Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly  
 355 360 365  
 Arg His Gly Asp Asp Leu Arg Asn Thr Lys Gln Glu Ile Ala Glu Ile  
 370 375 380  
 Asn Arg Met Ile Gln Arg Leu Arg Ser Glu Ile Asp His Val Lys Lys  
 385 390 395 400  
 Gln Cys Ala Asn Leu Gln Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly  
 405 410 415  
 Glu Met Ala Leu Lys Asp Ala Lys Asn Lys Leu Glu Gly Leu Glu Asp  
 420 425 430  
 Ala Leu Gln Lys Ala Lys Gln Asp Leu Ala Arg Leu Leu Lys Glu Tyr  
 435 440 445  
 Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp Val Glu Ile Ala Thr  
 450 455 460  
 Tyr Arg Lys Leu Leu Glu Gly Glu Cys Arg Leu Asn Gly Glu Gly  
 465 470 475 480  
 Val Gly Gln Val Asn Ile Ser Val Val Gln Ser Thr Val Ser Ser Gly  
 485 490 495  
 Tyr Gly Gly Ala Ser Gly Val Gly Ser Gly Leu Gly Leu Gly Gly  
 500 505 510  
 Ser Ser Tyr Ser Tyr Gly Ser Gly Leu Gly Val Gly Gly Phe Ser  
 515 520 525  
 Ser Ser Ser Gly Arg Ala Thr Gly Gly Leu Ser Ser Val Gly Gly  
 530 535 540  
 Gly Ser Ser Thr Ile Lys Tyr Thr Thr Ser Ser Ser Ser Arg Lys  
 545 550 555 560  
 Ser Tyr Lys His

<210> 454

<211> 564

<212> PRT

<213> Homo sapiens

<400> 454

Met Ala Ser Thr Ser Thr Thr Ile Arg Ser His Ser Ser Ser Arg Arg  
 1 5 10 15  
 Gly Phe Ser Ala Asn Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly  
 20 25 30

Siemens 0022 Seq Listing.txt

Phe Ser Ser Ile Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly  
     35                        40                        45  
 Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu  
     50                        55                        60  
 Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Ser Cys Ala Ile Ser  
     65                        70                        75                        80  
 Gly Gly Tyr Gly Ser Arg Ala Arg Gly Ser Tyr Gly Phe Gly Gly Ala  
     85                        90                        95  
 Gly Ser Gly Phe Gly Phe Gly Gly Ala Gly Ile Gly Phe Asp Leu  
     100                       105                       110  
 Gly Gly Ala Gly Leu Ala Gly Gly Phe Gly Gly Pro Gly Phe Pro  
     115                       120                       125  
 Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu  
     130                       135                       140  
 Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ala Ile Gln Arg Val Arg  
     145                       150                       155                       160  
 Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser  
     165                       170                       175  
 Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Asp  
     180                       185                       190  
 Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln  
     195                       200                       205  
 Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln  
     210                       215                       220  
 Leu Asp Asn Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg  
     225                       230                       235                       240  
 Asn Met Gln Asp Leu Val Glu Asp Leu Lys Asn Lys Tyr Glu Asp Glu  
     245                       250                       255  
 Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys  
     260                       265                       270  
 Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala  
     275                       280                       285  
 Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala  
     290                       295                       300  
 Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu  
     305                       310                       315                       320  
 Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu  
     325                       330                       335  
 Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala  
     340                       345                       350  
 Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly  
     355                       360                       365  
 Arg His Gly Asp Asp Leu Arg Asn Thr Lys Gln Glu Ile Ala Glu Ile  
     370                       375                       380  
 Asn Arg Met Ile Gln Arg Leu Arg Ser Glu Ile Asp His Val Lys Lys  
     385                       390                       395                       400  
 Gln Cys Ala Ser Leu Gln Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly  
     405                       410                       415  
 Glu Met Ala Leu Lys Asp Ala Lys Asn Lys Leu Glu Gly Leu Glu Asp  
     420                       425                       430  
 Ala Leu Gln Lys Ala Lys Gln Asp Leu Ala Arg Leu Leu Lys Glu Tyr  
     435                       440                       445  
 Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp Val Glu Ile Ala Thr  
     450                       455                       460  
 Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg Leu Asn Gly Glu Gly  
     465                       470                       475                       480  
 Ile Gly Gln Val Asn Val Ser Val Val Gln Ser Thr Ile Ser Ser Gly  
     485                       490                       495  
 Tyr Gly Gly Ala Ser Gly Val Gly Ser Gly Leu Gly Leu Gly Gly Gly  
     500                       505                       510  
 Ser Ser Tyr Ser Tyr Gly Ser Gly Leu Gly Ile Gly Gly Gly Phe Ser  
     515                       520                       525  
 Ser Ser Ser Gly Arg Ala Ile Gly Gly Leu Ser Ser Val Gly Gly

## Siemens 0022 Seq Listing.txt

530	535	540
Gly Ser Ser Thr Ile Lys	Tyr Thr Thr Thr	Ser Ser Ser Ser Arg Lys
545	550	555
Ser Tyr Lys His		560

&lt;210&gt; 455

&lt;211&gt; 564

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

Met Ala Ser Thr Ser Thr Thr Ile Arg Ser His Ser Ser Ser Arg Arg			
1	5	10	15
Gly Phe Ser Ala Asn Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly			
20	25	30	
Phe Ser Ser Ile Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly			
35	40	45	
Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu			
50	55	60	
Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Ser Cys Ala Ile Ser			
65	70	75	80
Gly Gly Tyr Gly Ser Arg Ala Arg Ala Ser Tyr Gly Phe Gly Gly Ala			
85	90	95	
Gly Ser Gly Phe Gly Phe Gly Gly Ala Gly Ile Gly Phe Asp Leu			
100	105	110	
Gly Gly Ala Gly Leu Ala Gly Gly Phe Gly Gly Pro Gly Phe Pro			
115	120	125	
Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu			
130	135	140	
Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ala Ile Gln Arg Val Arg			
145	150	155	160
Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser			
165	170	175	
Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Glu			
180	185	190	
Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln			
195	200	205	
Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln			
210	215	220	
Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg			
225	230	235	240
Gly Met Gln Asp Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu Asp Glu			
245	250	255	
Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys			
260	265	270	
Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala			
275	280	285	
Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala			
290	295	300	
Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu			
305	310	315	320
Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu			
325	330	335	
Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala			
340	345	350	
Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly			

## Siemens 0022 Seq Listing.txt

	355														
Arg	His	Gly	Asp	Asp	Leu	Arg	Asn	Thr	Lys	Gln	Glu	Ile	Ala	Glu	Ile
370					375					380					
Asn	Arg	Met	Ile	Gln	Arg	Leu	Arg	Ser	Glu	Ile	Asp	His	Val	Lys	Lys
385					390					395					400
Gln	Cys	Ala	Asn	Leu	Gln	Ala	Ala	Ile	Ala	Asp	Ala	Glu	Gln	Arg	Gly
					405					410					415
Glu	Met	Ala	Leu	Lys	Asp	Ala	Lys	Asn	Lys	Leu	Glu	Gly	Leu	Glu	Asp
					420					425					430
Ala	Leu	Gln	Lys	Ala	Lys	Gln	Asp	Leu	Ala	Arg	Leu	Leu	Lys	Glu	Tyr
					435					440					445
Gln	Glu	Leu	Met	Asn	Val	Lys	Leu	Ala	Leu	Asp	Val	Glu	Ile	Ala	Thr
					450					455					460
Tyr	Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Cys	Arg	Leu	Asn	Gly	Glu	Gly
465					470					475					480
Val	Gly	Gln	Val	Asn	Ile	Ser	Val	Val	Gln	Ser	Thr	Val	Ser	Ser	Gly
					485					490					495
Tyr	Gly	Gly	Ala	Ser	Gly	Val	Gly	Ser	Gly	Leu	Gly	Leu	Gly	Gly	Gly
					500					505					510
Ser	Ser	Tyr	Ser	Tyr	Gly	Ser	Gly	Leu	Gly	Val	Gly	Gly	Gly	Phe	Ser
					515					520					525
Ser	Ser	Ser	Gly	Arg	Ala	Ile	Gly	Gly	Gly	Leu	Ser	Ser	Val	Gly	Gly
					530					535					540
Gly	Ser	Ser	Thr	Ile	Lys	Tyr	Thr	Thr	Thr	Ser	Ser	Ser	Ser	Arg	Lys
					545					550					560
Ser	Tyr	Lys	His												

&lt;210&gt; 456

&lt;211&gt; 564

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 456

Met	Ala	Ser	Thr	Ser	Thr	Thr	Ile	Arg	Ser	His	Ser	Ser	Ser	Arg	Arg
1							5		10					15	
Gly	Phe	Ser	Ala	Asn	Ser	Ala	Arg	Leu	Pro	Gly	Val	Ser	Arg	Ser	Gly
							20		25					30	
Phe	Ser	Ser	Val	Ser	Val	Ser	Arg	Ser	Arg	Gly	Ser	Gly	Gly	Leu	Gly
							35		40					45	
Gly	Ala	Cys	Gly	Gly	Ala	Gly	Phe	Gly	Ser	Arg	Ser	Leu	Tyr	Gly	Leu
							50		55					60	
Gly	Gly	Ser	Lys	Arg	Ile	Ser	Ile	Gly	Gly	Gly	Ser	Cys	Ala	Ile	Ser
							65		70					80	
Gly	Gly	Tyr	Gly	Ser	Arg	Ala	Gly	Gly	Ser	Tyr	Gly	Phe	Gly	Gly	Ala
							85		90					95	
Gly	Ser	Gly	Phe	Gly	Phe	Gly	Gly	Ala	Gly	Ile	Gly	Phe	Gly	Leu	
							100		105					110	
Gly	Gly	Gly	Ala	Gly	Leu	Ala	Gly	Gly	Phe	Gly	Gly	Pro	Gly	Phe	Pro
							115		120					125	
Val	Cys	Pro	Pro	Gly	Gly	Ile	Gln	Glu	Val	Thr	Val	Asn	Gln	Ser	Leu
							130		135					140	
Leu	Thr	Pro	Leu	Asn	Leu	Gln	Ile	Asp	Pro	Thr	Ile	Gln	Arg	Val	Arg
							145		150					155	
Ala	Glu	Glu	Arg	Glu	Gln	Ile	Lys	Thr	Leu	Asn	Asn	Lys	Phe	Ala	Ser
							165		170					175	
Phe	Ile	Asp	Lys	Val	Arg	Phe	Leu	Glu	Gln	Gln	Asn	Lys	Val	Leu	Glu

## Siemens 0022 Seq Listing.txt

180	185	190
Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln		
195	200	205
Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln		
210	215	220
Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg		
225	230	235
Gly Met Gln Asp Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu Asp Glu		
245	250	255
Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys		
260	265	270
Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala		
275	280	285
Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala		
290	295	300
Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu		
305	310	315
Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu		
325	330	335
Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala		
340	345	350
Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly		
355	360	365
Arg His Gly Asp Asp Leu Arg Asn Thr Lys Gln Glu Ile Ala Glu Ile		
370	375	380
Asn Arg Met Ile Gln Arg Leu Arg Ser Glu Ile Asp His Val Lys Lys		
385	390	395
Gln Cys Ala Asn Leu Gln Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly		
405	410	415
Glu Met Ala Leu Lys Asp Ala Lys Asn Lys Leu Glu Gly Leu Glu Asp		
420	425	430
Ala Leu Gln Lys Ala Lys Gln Asp Leu Ala Arg Leu Leu Lys Glu Tyr		
435	440	445
Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp Val Glu Ile Ala Thr		
450	455	460
Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg Leu Asn Gly Glu Gly		
465	470	475
Val Gly Gln Val Asn Ile Ser Val Val Gln Ser Thr Val Ser Ser Gly		
485	490	495
Tyr Gly Gly Ala Ser Gly Val Gly Ser Gly Leu Gly Leu Gly Gly Gly		
500	505	510
Ser Ser Tyr Ser Tyr Gly Ser Gly Leu Gly Val Gly Gly Phe Ser		
515	520	525
Ser Ser Ser Gly Arg Ala Ile Gly Gly Leu Ser Ser Val Gly Gly		
530	535	540
Gly Ser Ser Thr Ile Lys Tyr Thr Thr Ser Ser Ser Ser Arg Lys		
545	550	555
Ser Tyr Lys His		

&lt;210&gt; 457

&lt;211&gt; 590

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 457

Met Ser Arg Gln Ser Ser Val Ser Phe Arg Ser Gly Gly Ser Arg Ser

## Siemens 0022 Seq Listing.txt

1                       5                       10                       15  
 Phe Ser Thr Ala Ser Ala Ile Thr Pro Ser Val Ser Arg Thr Ser Phe  
     20                       25                       30  
 Thr Ser Val Ser Arg Ser Gly Gly Gly Gly Gly Gly Phe Gly Arg  
     35                       40                       45  
 Val Ser Leu Ala Gly Ala Cys Gly Val Gly Gly Tyr Gly Ser Arg Ser  
     50                       55                       60  
 Leu Tyr Asn Leu Gly Gly Ser Lys Arg Ile Ser Ile Ser Thr Arg Gly  
     65                       70                       75                       80  
 Gly Ser Phe Arg Asn Arg Phe Gly Ala Gly Ala Gly Gly Tyr Gly  
     85                       90                       95  
 Phe Gly Gly Ala Gly Ser Gly Phe Gly Phe Gly Gly Ala Gly  
     100                       105                       110  
 Gly Gly Phe Gly Leu Gly Gly Ala Gly Phe Gly Gly Phe Gly  
     115                       120                       125  
 Gly Pro Gly Phe Pro Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr  
     130                       135                       140  
 Val Asn Gln Ser Leu Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ser  
     145                       150                       155                       160  
 Ile Gln Arg Val Arg Thr Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn  
     165                       170                       175  
 Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln  
     180                       185                       190  
 Asn Lys Val Leu Asp Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr  
     195                       200                       205  
 Lys Thr Val Arg Gln Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn  
     210                       215                       220  
 Asn Leu Arg Arg Gln Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu  
     225                       230                       235                       240  
 Asp Ser Glu Leu Arg Asn Met Gln Asp Leu Val Glu Asp Phe Lys Asn  
     245                       250                       255  
 Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Thr Ala Glu Asn Glu Phe  
     260                       265                       270  
 Val Met Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu  
     275                       280                       285  
 Leu Glu Ala Lys Val Asp Ala Leu Met Asp Glu Ile Asn Phe Met Lys  
     290                       295                       300  
 Met Phe Phe Asp Ala Glu Leu Ser Gln Met Gln Thr His Val Ser Asp  
     305                       310                       315                       320  
 Thr Ser Val Val Leu Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp  
     325                       330                       335  
 Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Ile Ala Asn Arg  
     340                       345                       350  
 Ser Arg Thr Glu Ala Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu  
     355                       360                       365  
 Gln Gln Thr Ala Gly Arg His Gly Asp Asp Leu Arg Asn Thr Lys His  
     370                       375                       380  
 Glu Ile Thr Glu Met Asn Arg Met Ile Gln Arg Leu Arg Ala Glu Ile  
     385                       390                       395                       400  
 Asp Asn Val Lys Lys Gln Cys Ala Asn Leu Gln Asn Ala Ile Ala Asp  
     405                       410                       415  
 Ala Glu Gln Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Asn Lys Leu  
     420                       425                       430  
 Ala Glu Leu Glu Glu Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Arg  
     435                       440                       445  
 Leu Leu Arg Glu Tyr Gln Glu Leu Met Asn Thr Lys Leu Ala Leu Asp  
     450                       455                       460  
 Val Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg  
     465                       470                       475                       480  
 Leu Ser Gly Glu Gly Val Gly Pro Val Asn Ile Ser Val Val Thr Ser  
     485                       490                       495  
 Ser Val Ser Ser Gly Tyr Gly Ser Gly Ser Gly Tyr Gly Gly Leu  
     500                       505                       510

Siemens 0022 Seq Listing.txt

Gly Gly Gly Leu Gly Gly Leu Gly Gly Leu Ala Gly Gly Ser  
515 520 525  
Ser Gly Ser Tyr Tyr Ser Ser Ser Ser Gly Gly Val Gly Leu Gly Gly  
530 535 540  
Gly Leu Ser Val Gly Gly Ser Gly Phe Ser Ala Ser Ser Gly Arg Gly  
545 550 555 560  
Leu Gly Val Gly Phe Gly Ser Gly Gly Ser Ser Ser Ser Val Lys  
565 570 575  
Phe Val Ser Thr Thr Ser Ser Arg Lys Ser Phe Lys Ser  
580 585 590

<210> 458

<211> 523

<212> PRT

<213> Homo sapiens

<400> 458  
Met Ser Arg Gln Phe Thr Cys Lys Ser Gly Ala Ala Ala Lys Gly Gly  
1 5 10 15  
Phe Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ser Ser Ser Phe  
20 25 30  
Arg Ala Gly Ser Lys Gly Leu Ser Gly Gly Phe Gly Ser Arg Ser Leu  
35 40 45  
Tyr Ser Leu Gly Gly Val Arg Ser Leu Asn Val Ala Ser Gly Ser Gly  
50 55 60  
Lys Ser Gly Gly Tyr Gly Phe Gly Arg Gly Arg Ala Ser Gly Phe Ala  
65 70 75 80  
Gly Ser Met Phe Gly Ser Val Ala Leu Gly Pro Val Cys Pro Thr Val  
85 90 95  
Cys Pro Pro Gly Gly Ile His Gln Val Thr Val Asn Glu Ser Leu Leu  
100 105 110  
Ala Pro Leu Asn Val Glu Leu Asp Pro Glu Ile Gln Lys Val Arg Ala  
115 120 125  
Gln Glu Arg Glu Gln Ile Lys Ala Leu Asn Asn Lys Phe Ala Ser Phe  
130 135 140  
Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Gln Val Leu Glu Thr  
145 150 155 160  
Lys Trp Glu Leu Leu Gln Gln Leu Asp Leu Asn Asn Cys Lys Asn Asn  
165 170 175  
Leu Glu Pro Ile Leu Glu Gly Tyr Ile Ser Asn Leu Arg Lys Gln Leu  
180 185 190  
Glu Thr Leu Ser Gly Asp Arg Val Arg Leu Asp Ser Glu Leu Arg Asn  
195 200 205  
Val Arg Asp Val Val Glu Asp Tyr Lys Lys Arg Tyr Glu Glu Glu Ile  
210 215 220  
Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Leu Leu Lys Lys Asp  
225 230 235 240  
Val Asp Ala Ala Tyr Ala Asn Lys Val Glu Leu Gln Ala Lys Val Glu  
245 250 255  
Ser Met Asp Gln Glu Ile Lys Phe Phe Arg Cys Leu Phe Glu Ala Glu  
260 265 270  
Ile Thr Gln Ile Gln Ser His Ile Ser Asp Met Ser Val Ile Leu Ser  
275 280 285  
Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Asp Glu Val  
290 295 300  
Arg Thr Gln Tyr Glu Glu Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu  
305 310 315 320

Siemens 0022 Seq Listing.txt

Ala Leu Tyr Gln Thr Lys Phe Gln Glu Leu Gln Leu Ala Ala Gly Arg  
                   325                  330                  335  
 His Gly Asp Asp Leu Lys Asn Thr Lys Asn Glu Ile Ser Glu Leu Thr  
                   340                  345                  350  
 Arg Leu Ile Gln Arg Ile Arg Ser Glu Ile Glu Asn Val Lys Lys Gln  
                   355                  360                  365  
 Ala Ser Asn Leu Glu Thr Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp  
                   370                  375                  380  
 Asn Ala Leu Lys Asp Ala Arg Ala Lys Leu Asp Glu Leu Glu Gly Ala  
                   385                  390                  395                  400  
 Leu His Gln Ala Lys Glu Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln  
                   405                  410                  415  
 Glu Leu Met Ser Leu Lys Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr  
                   420                  425                  430  
 Arg Lys Leu Leu Glu Ser Glu Glu Cys Arg Met Ser Gly Glu Phe Pro  
                   435                  440                  445  
 Ser Pro Val Ser Ile Ser Ile Ile Ser Ser Thr Ser Gly Gly Ser Val  
                   450                  455                  460  
 Tyr Gly Phe Arg Pro Ser Met Val Ser Gly Gly Tyr Val Ala Asn Ser  
                   465                  470                  475                  480  
 Ser Asn Cys Ile Ser Gly Val Cys Ser Val Arg Gly Gly Glu Gly Arg  
                   485                  490                  495  
 Ser Arg Gly Ser Ala Asn Asp Tyr Lys Asp Thr Leu Gly Lys Gly Ser  
                   500                  505                  510  
 Ser Leu Ser Ala Pro Ser Lys Lys Thr Ser Arg  
                   515                  520

<210> 459

<211> 529

<212> PRT

<213> Homo sapiens

<400> 459

Met Ser Arg Gln Leu Asn Ile Lys Ser Ser Gly Asp Lys Gly Asn Phe  
 1                  5                  10                  15  
 Ser Val His Ser Ala Val Val Pro Arg Lys Ala Val Gly Ser Leu Ala  
                   20                  25                  30  
 Ser Tyr Cys Ala Ala Gly Arg Gly Ala Gly Ala Gly Phe Gly Ser Arg  
                   35                  40                  45  
 Ser Leu Tyr Ser Leu Gly Gly Asn Arg Arg Ile Ser Phe Asn Val Ala  
                   50                  55                  60  
 Gly Gly Gly Val Arg Ala Gly Gly Tyr Gly Phe Arg Pro Gly Ser Gly  
                   65                  70                  75                  80  
 Tyr Gly Gly Gly Arg Ala Ser Gly Phe Ala Gly Ser Met Phe Gly Ser  
                   85                  90                  95  
 Val Ala Leu Gly Pro Ala Cys Leu Ser Val Cys Pro Pro Gly Gly Ile  
                   100                105                110  
 His Gln Val Thr Val Asn Lys Ser Leu Leu Ala Pro Leu Asn Val Glu  
                   115                120                125  
 Leu Asp Pro Glu Ile Gln Lys Val Arg Ala Gln Glu Arg Glu Gln Ile  
                   130                135                140  
 Lys Val Leu Asn Asp Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe  
                   145                150                155                  160  
 Leu Glu Gln Gln Asn Gln Val Leu Glu Thr Lys Trp Glu Leu Leu Gln  
                   165                170                175  
 Gln Leu Asp Leu Asn Asn Cys Lys Lys Asn Leu Glu Pro Ile Leu Glu  
                   180                185                190

Siemens 0022 Seq Listing.txt

Gly Tyr Ile Ser Asn Leu Arg Lys Gln Leu Glu Thr Leu Ser Gly Asp  
 195 200 205  
 Arg Val Arg Leu Asp Ser Glu Leu Arg Ser Met Arg Asp Leu Val Glu  
 210 215 220  
 Asp Tyr Lys Lys Arg Tyr Glu Val Glu Ile Asn Arg Arg Thr Thr Ala  
 225 230 235 240  
 Glu Asn Glu Phe Val Val Leu Lys Lys Asp Ala Asp Ala Ala Tyr Ala  
 245 250 255  
 Val Lys Val Glu Leu Gln Ala Lys Val Asp Ser Leu Asp Lys Asp Ile  
 260 265 270  
 Lys Phe Leu Lys Cys Leu Tyr Asp Ala Glu Ile Ala Gln Ile Gln Thr  
 275 280 285  
 His Ala Ser Glu Thr Ser Val Ile Leu Ser Met Asp Asn Asn Arg Asp  
 290 295 300  
 Leu Asp Leu Asp Ser Ile Ile Ala Glu Val Arg Met His Tyr Glu Glu  
 305 310 315 320  
 Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu Ala Leu Tyr Gln Thr Lys  
 325 330 335  
 Ile Gln Glu Leu Gln Leu Ala Ala Ser Arg His Gly Asp Asp Leu Lys  
 340 345 350  
 His Thr Arg Ser Glu Met Val Glu Leu Asn Arg Leu Ile Gln Arg Ile  
 355 360 365  
 Arg Cys Glu Ile Gly Asn Val Lys Lys Gln Arg Ala Ser Leu Glu Thr  
 370 375 380  
 Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp Asn Ala Leu Lys Asp Ala  
 385 390 395 400  
 Gln Ala Lys Leu Asp Glu Leu Glu Gly Ala Leu His Gln Ala Lys Glu  
 405 410 415  
 Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln Glu Leu Met Ser Leu Lys  
 420 425 430  
 Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly  
 435 440 445  
 Glu Glu Cys Arg Met Ser Gly Glu Asn Pro Ser Ser Val Ser Ile Ser  
 450 455 460  
 Val Ile Ser Ser Ser Tyr Ser Tyr His His Pro Ser Ser Ala Gly  
 465 470 475 480  
 Val Asp Leu Gly Ala Ser Ala Val Ala Gly Ser Ser Gly Ser Thr Gln  
 485 490 495  
 Ser Gly Gln Thr Lys Thr Thr Glu Ala Arg Gly Gly Asp Leu Lys Asp  
 500 505 510  
 Thr Gln Gly Lys Ser Thr Pro Ala Ser Ile Pro Ala Arg Lys Ala Thr  
 515 520 525  
 Arg

<210> 460

<211> 511

<212> PRT

<213> Homo sapiens

<400> 460  
 Met Ser Arg Gln Leu Thr His Phe Pro Arg Gly Glu Arg Leu Gly Phe  
 1 5 10 15  
 Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ile Gly Ser Ser Ser Ala  
 20 25 30  
 Ser Phe Arg Ala Arg Val Lys Gly Ser Ala Ser Phe Gly Ser Lys Ser  
 35 40 45

Siemens 0022 Seq Listing.txt

Leu Ser Cys Leu Gly Gly Ser Arg Ser Leu Ala Leu Ser Ala Ala Ala  
 50 55 60  
 Arg Arg Gly Gly Gly Arg Leu Gly Gly Phe Val Gly Thr Ala Phe Gly  
 65 70 75 80  
 Ser Ala Gly Leu Gly Pro Lys Cys Pro Ser Val Cys Pro Pro Gly Gly  
 85 90 95  
 Ile Pro Gln Val Thr Val Asn Lys Ser Leu Leu Ala Pro Leu Asn Val  
 100 105 110  
 Glu Met Asp Pro Glu Ile Gln Arg Val Arg Ala Gln Glu Arg Glu Gln  
 115 120 125  
 Ile Lys Ala Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg  
 130 135 140  
 Phe Leu Glu Gln Gln Asn Gln Val Leu Glu Thr Lys Trp Asn Leu Leu  
 145 150 155 160  
 Gln Gln Leu Asp Leu Asn Asn Cys Arg Lys Asn Leu Glu Pro Ile Tyr  
 165 170 175  
 Glu Gly Tyr Ile Ser Asn Leu Gln Lys Gln Leu Glu Met Leu Ser Gly  
 180 185 190  
 Asp Gly Val Arg Leu Asp Ser Glu Leu Arg Asn Met Gln Asp Leu Val  
 195 200 205  
 Glu Asp Tyr Lys Lys Arg Tyr Glu Val Glu Ile Asn Arg Arg Thr Ala  
 210 215 220  
 Ala Glu Asn Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr  
 225 230 235 240  
 Met Asn Lys Val Glu Leu Gln Ala Lys Val Asp Ser Leu Thr Asp Glu  
 245 250 255  
 Ile Lys Phe Phe Lys Cys Leu Tyr Glu Gly Glu Ile Thr Gln Ile Gln  
 260 265 270  
 Ser His Ile Ser Asp Thr Ser Ile Val Leu Ser Met Asp Asn Asn Arg  
 275 280 285  
 Asp Leu Asp Leu Asp Ser Ile Ile Ala Glu Val Arg Ala Gln Tyr Glu  
 290 295 300  
 Glu Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu Thr Leu Tyr Gln Thr  
 305 310 315 320  
 Lys Ile Gln Glu Leu Gln Val Thr Ala Gly Gln His Gly Asp Asp Leu  
 325 330 335  
 Lys Leu Thr Lys Ala Glu Ile Ser Glu Leu Asn Arg Leu Ile Gln Arg  
 340 345 350  
 Ile Arg Ser Glu Ile Gly Asn Val Lys Lys Gln Cys Ala Asp Leu Glu  
 355 360 365  
 Thr Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp Cys Ala Leu Lys Asp  
 370 375 380  
 Ala Arg Ala Lys Leu Asp Glu Leu Glu Gly Ala Leu His Gln Ala Lys  
 385 390 395 400  
 Glu Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln Glu Leu Val Ser Leu  
 405 410 415  
 Lys Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu  
 420 425 430  
 Ser Glu Glu Cys Arg Met Ser Gly Glu Tyr Pro Asn Ser Val Ser Ile  
 435 440 445  
 Ser Val Ile Ser Ser Thr Asn Ala Gly Ala Gly Ala Gly Phe Ser  
 450 455 460  
 Met Gly Phe Gly Ala Ser Ser Ser Tyr Ser Tyr Lys Thr Ala Ala Ala  
 465 470 475 480  
 Asp Val Lys Thr Lys Gly Ser Cys Gly Ser Glu Leu Lys Asp Pro Leu  
 485 490 495  
 Ala Lys Thr Ser Gly Ser Ser Cys Ala Thr Lys Lys Ala Ser Arg  
 500 505 510

<210> 461

<211> 540

## Siemens 0022 Seq Listing.txt

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 461  
 Met Ser Arg Gln Phe Thr Tyr Lys Ser Gly Ala Ala Ala Lys Gly Gly  
 1 5 10 15  
 Phe Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ser Ser Ser Ser Tyr  
 20 25 30  
 Arg Ala Gly Gly Lys Gly Leu Ser Gly Gly Phe Ser Ser Arg Ser Leu  
 35 40 45  
 Tyr Ser Leu Gly Gly Ala Arg Ser Ile Ser Phe Asn Val Ala Ser Gly  
 50 55 60  
 Ser Gly Trp Ala Gly Gly Tyr Gly Phe Gly Arg Gly Arg Ala Ser Gly  
 65 70 75 80  
 Phe Ala Gly Ser Met Phe Gly Ser Val Ala Leu Gly Ser Val Cys Pro  
 85 90 95  
 Ser Leu Cys Pro Pro Gly Gly Ile His Gln Val Thr Ile Asn Lys Ser  
 100 105 110  
 Leu Leu Ala Pro Leu Asn Val Glu Leu Asp Pro Glu Ile Gln Lys Val  
 115 120 125  
 Arg Ala Gln Glu Arg Glu Gln Ile Lys Val Leu Asn Asn Lys Phe Ala  
 130 135 140  
 Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Gln Val Leu  
 145 150 155 160  
 Glu Thr Lys Trp Glu Leu Leu Gln Gln Leu Asp Leu Asn Asn Cys Lys  
 165 170 175  
 Asn Asn Leu Glu Pro Ile Leu Glu Gly Tyr Ile Ser Asn Leu Arg Lys  
 180 185 190  
 Gln Leu Glu Thr Leu Ser Gly Asp Arg Val Arg Leu Asp Ser Glu Leu  
 195 200 205  
 Arg Ser Val Arg Glu Val Val Glu Asp Tyr Lys Lys Arg Tyr Glu Glu  
 210 215 220  
 Glu Ile Asn Lys Arg Thr Thr Ala Glu Asn Glu Phe Val Val Leu Lys  
 225 230 235 240  
 Lys Asp Val Asp Ala Ala Tyr Thr Ser Lys Val Glu Leu Gln Ala Lys  
 245 250 255  
 Val Asp Ala Leu Asp Gly Glu Ile Lys Phe Phe Lys Cys Leu Tyr Glu  
 260 265 270  
 Gly Glu Thr Ala Gln Ile Gln Ser His Ile Ser Asp Thr Ser Ile Ile  
 275 280 285  
 Leu Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala  
 290 295 300  
 Glu Val Arg Ala Gln Tyr Glu Glu Ile Ala Arg Lys Ser Lys Ala Glu  
 305 310 315 320  
 Ala Glu Ala Leu Tyr Gln Thr Lys Phe Gln Glu Leu Gln Leu Ala Ala  
 325 330 335  
 Gly Arg His Gly Asp Asp Leu Lys His Thr Lys Asn Glu Ile Ser Glu  
 340 345 350  
 Leu Thr Arg Leu Ile Gln Arg Leu Arg Ser Glu Ile Glu Ser Val Lys  
 355 360 365  
 Lys Gln Cys Ala Asn Leu Glu Thr Ala Ile Ala Asp Ala Glu Gln Arg  
 370 375 380  
 Gly Asp Cys Ala Leu Lys Asp Ala Arg Ala Lys Leu Asp Glu Leu Glu  
 385 390 395 400  
 Gly Ala Leu Gln Gln Ala Lys Glu Glu Leu Ala Arg Met Leu Arg Glu  
 405 410 415  
 Tyr Gln Glu Leu Leu Ser Val Lys Leu Ser Leu Asp Ile Glu Ile Ala  
 420 425 430  
 Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg Met Ser Gly Glu

## Siemens 0022 Seq Listing.txt

435

440

445

Tyr Thr Asn Ser Val Ser Ile Ser Val Ile Asn Ser Ser Met Ala Gly  
 450 455 460  
 Met Ala Gly Thr Gly Ala Gly Phe Gly Phe Ser Asn Ala Gly Thr Tyr  
 465 470 475 480  
 Gly Tyr Trp Pro Ser Ser Val Ser Gly Gly Tyr Ser Met Leu Pro Gly  
 485 490 495  
 Gly Cys Val Thr Gly Ser Gly Asn Cys Ser Pro Arg Gly Glu Ala Arg  
 500 505 510  
 Thr Arg Leu Gly Ser Ala Ser Glu Phe Arg Asp Ser Gln Gly Lys Thr  
 515 520 525  
 Leu Ala Leu Ser Ser Pro Thr Lys Lys Thr Met Arg  
 530 535 540

&lt;210&gt; 462

&lt;211&gt; 645

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 462

Met Ser Cys Gln Ile Ser Cys Lys Ser Arg Gly Arg Gly Gly Gly  
 1 5 10 15  
 Gly Gly Phe Arg Gly Phe Ser Ser Gly Ser Ala Val Val Ser Gly Gly  
 20 25 30  
 Ser Arg Arg Ser Thr Ser Ser Phe Ser Cys Leu Ser Arg His Gly Gly  
 35 40 45  
 Gly Gly Gly Phe Gly Gly Gly Phe Gly Ser Arg Ser Leu Val  
 50 55 60  
 Gly Leu Gly Gly Thr Lys Ser Ile Ser Ile Ser Val Ala Gly Gly  
 65 70 75 80  
 Gly Gly Phe Gly Ala Ala Gly Gly Phe Gly Gly Arg Gly Gly Phe  
 85 90 95  
 Gly Gly Gly Ser Gly Phe Gly Gly Ser Gly Phe Gly Gly Ser  
 100 105 110  
 Gly Phe Ser Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly Arg  
 115 120 125  
 Phe Gly Gly Phe Gly Gly Pro Gly Gly Val Gly Gly Leu Gly Pro  
 130 135 140  
 Gly Gly Phe Gly Pro Gly Gly Tyr Pro Gly Gly Ile His Glu Val Ser  
 145 150 155 160  
 Val Asn Gln Ser Leu Leu Gln Pro Leu Asn Val Lys Val Asp Pro Glu  
 165 170 175  
 Ile Gln Asn Val Lys Ala Gln Glu Arg Glu Gln Ile Lys Thr Leu Asn  
 180 185 190  
 Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln  
 195 200 205  
 Asn Gln Val Leu Gln Thr Lys Trp Glu Leu Leu Gln Gln Met Asn Val  
 210 215 220  
 Gly Thr Arg Pro Ile Asn Leu Glu Pro Ile Phe Gln Gly Tyr Ile Asp  
 225 230 235 240  
 Ser Leu Lys Arg Tyr Leu Asp Gly Leu Thr Ala Glu Arg Thr Ser Gln  
 245 250 255  
 Asn Ser Glu Leu Asn Asn Met Gln Asp Leu Val Glu Asp Tyr Lys Lys  
 260 265 270  
 Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Ala Ala Glu Asn Asp Phe  
 275 280 285  
 Val Thr Leu Lys Lys Asp Val Asp Asn Ala Tyr Met Ile Lys Val Glu

## Siemens 0022 Seq Listing.txt

290	295	300
Leu Gln Ser Lys Val Asp	Leu Leu Asn Gln Glu Ile Glu Phe Leu Lys	
305	310	315
Val Leu Tyr Asp Ala Glu Ile Ser Gln Ile His Gln Ser Val Thr Asp		320
325	330	335
Thr Asn Val Ile Leu Ser Met Asp Asn Ser Arg Asn Leu Asp Leu Asp		
340	345	350
Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg		
355	360	365
Ser Lys Glu Glu Ala Glu Ala Leu Tyr His Ser Lys Tyr Glu Glu Leu		
370	375	380
Gln Val Thr Val Gly Arg His Gly Asp Ser Leu Lys Glu Ile Lys Ile		
385	390	395
Glu Ile Ser Glu Leu Asn Arg Val Ile Gln Arg Leu Gln Gly Glu Ile		400
405	410	415
Ala His Val Lys Lys Gln Cys Lys Asn Val Gln Asp Ala Ile Ala Asp		
420	425	430
Ala Glu Gln Arg Gly Glu His Ala Leu Lys Asp Ala Arg Asn Lys Leu		
435	440	445
Asn Asp Leu Glu Glu Ala Leu Gln Gln Ala Lys Glu Asp Leu Ala Arg		
450	455	460
Leu Leu Arg Asp Tyr Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp		
465	470	475
Val Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg		
485	490	495
Met Ser Gly Asp Leu Ser Ser Asn Val Thr Val Ser Val Thr Ser Ser		
500	505	510
Thr Ile Ser Ser Asn Val Ala Ser Lys Ala Ala Phe Gly Gly Ser Gly		
515	520	525
Gly Arg Gly Ser Ser Ser Gly Gly Gly Tyr Ser Ser Gly Ser Ser Ser		
530	535	540
Tyr Gly Ser Gly Gly Arg Gln Ser Gly Ser Arg Gly Gly Ser Gly Gly		
545	550	555
Gly Gly Ser Ile Ser Gly Gly Gly Tyr Gly Ser Gly Gly Ser Gly		560
565	570	575
Gly Arg Tyr Gly Ser Gly Gly Ser Lys Gly Gly Ser Ile Ser Gly		
580	585	590
Gly Gly Tyr Gly Ser Gly Gly Lys His Ser Ser Gly Gly Gly Ser		
595	600	605
Arg Gly Gly Ser Ser Ser Gly Gly Gly Tyr Gly Ser Gly Gly Gly		
610	615	620
Ser Ser Ser Val Lys Gly Ser Ser Gly Glu Ala Phe Gly Ser Ser Val		
625	630	635
Thr Phe Ser Phe Arg		640
645		

&lt;210&gt; 463

&lt;211&gt; 644

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Met Ser Arg Gln Phe Ser Ser Arg Ser Gly Tyr Arg Ser Gly Gly Gly			
1	5	10	15
Phe Ser Ser Gly Ser Ala Gly Ile Ile Asn Tyr Gln Arg Arg Thr Thr			
20	25	30	
Ser Ser Ser Thr Arg Arg Ser Gly Gly Gly Gly Arg Phe Ser Ser			

## Siemens 0022 Seq Listing.txt

Cys	Gly	Gly	Gly	Gly	Gly	Ser	Phe	Gly	Ala	Gly	Gly	Gly	Phe	Gly	Ser
35						40									45
50						55									60
Arg	Ser	Leu	Val	Asn	Leu	Gly	Gly	Ser	Lys	Ser	Ile	Ser	Ile	Ser	Val
65						70					75				80
Ala	Arg	Gly	Gly	Gly	Arg	Gly	Ser	Gly	Phe	Gly	Gly	Tyr	Gly	Gly	
						85				90				95	
Gly	Gly	Phe	Gly	Gly	Gly	Gly	Phe	Gly	Gly	Gly	Phe	Gly	Gly	Gly	
						100				105				110	
Gly	Ile	Gly	Gly	Gly	Gly	Phe	Gly	Gly	Phe	Gly	Ser	Gly	Gly	Gly	
						115				120				125	
Phe	Gly	Gly	Gly	Phe	Gly	Gly	Gly	Phe	Gly	Gly	Tyr	Gly	Gly	Tyr	Gly
						130				135				140	
Pro	Val	Cys	Pro	Pro	Gly	Gly	Ile	Gln	Glu	Val	Thr	Ile	Asn	Gln	Ser
145						150				155					160
Leu	Leu	Gln	Pro	Leu	Asn	Val	Glu	Ile	Asp	Pro	Glu	Ile	Gln	Lys	Val
						165				170					175
Lys	Ser	Arg	Glu	Arg	Glu	Gln	Ile	Lys	Ser	Leu	Asn	Asn	Gln	Phe	Ala
						180				185					190
Ser	Phe	Ile	Asp	Lys	Val	Arg	Phe	Leu	Glu	Gln	Gln	Asn	Gln	Val	Leu
						195				200					205
Gln	Thr	Lys	Trp	Glu	Leu	Leu	Gln	Gln	Val	Asp	Thr	Ser	Thr	Arg	Thr
						210				215					220
His	Asn	Leu	Glu	Pro	Tyr	Phe	Glu	Ser	Phe	Ile	Asn	Asn	Leu	Arg	Arg
225						230				235					240
Arg	Val	Asp	Gln	Leu	Lys	Ser	Asp	Gln	Ser	Arg	Leu	Asp	Ser	Glu	Leu
						245				250					255
Lys	Asn	Met	Gln	Asp	Met	Val	Glu	Asp	Tyr	Arg	Asn	Lys	Tyr	Glu	Asp
						260				265					270
Glu	Ile	Asn	Lys	Arg	Thr	Asn	Ala	Glu	Asn	Glu	Phe	Val	Thr	Ile	Lys
						275				280					285
Lys	Asp	Val	Asp	Gly	Ala	Tyr	Met	Thr	Lys	Val	Asp	Leu	Gln	Ala	Lys
						290				295					300
Leu	Asp	Asn	Leu	Gln	Gln	Glu	Ile	Asp	Phe	Leu	Thr	Ala	Leu	Tyr	Gln
305						310				315					320
Ala	Glu	Leu	Ser	Gln	Met	Gln	Thr	Gln	Ile	Ser	Glu	Thr	Asn	Val	Ile
						325				330					335
Leu	Ser	Met	Asp	Asn	Asn	Arg	Ser	Leu	Asp	Leu	Asp	Ser	Ile	Ile	Ala
						340				345					350
Glu	Val	Lys	Ala	Gln	Tyr	Glu	Asp	Ile	Ala	Gln	Lys	Ser	Lys	Ala	Glu
						355				360					365
Ala	Glu	Ser	Leu	Tyr	Gln	Ser	Lys	Tyr	Glu	Glu	Leu	Gln	Ile	Thr	Ala
						370				375					380
Gly	Arg	His	Gly	Asp	Ser	Val	Arg	Asn	Ser	Lys	Ile	Glu	Ile	Ser	Glu
385						390				395					400
Leu	Asn	Arg	Val	Ile	Gln	Arg	Leu	Arg	Ser	Glu	Ile	Asp	Asn	Val	Lys
						405				410					415
Lys	Gln	Ile	Ser	Asn	Leu	Gln	Gln	Ser	Ile	Ser	Asp	Ala	Glu	Gln	Arg
						420				425					430
Gly	Glu	Asn	Ala	Leu	Lys	Asp	Ala	Lys	Asn	Lys	Leu	Asn	Asp	Leu	Glu
						435				440					445
Asp	Ala	Leu	Gln	Gln	Ala	Lys	Glu	Asp	Leu	Ala	Arg	Leu	Leu	Arg	Asp
						450				455					460
Tyr	Gln	Glu	Leu	Met	Asn	Thr	Lys	Leu	Ala	Leu	Asp	Leu	Glu	Ile	Ala
465						470				475					480
Thr	Tyr	Arg	Thr	Leu	Leu	Glu	Gly	Glu	Glu	Ser	Arg	Met	Ser	Gly	Glu
						485				490					495
Cys	Ala	Pro	Asn	Val	Ser	Val	Ser	Val	Ser	Thr	Ser	His	Thr	Thr	Ile
						500				505					510
Ser	Gly	Gly	Ser	Arg	Gly	Gly	Gly	Gly	Gly	Tyr	Gly	Ser	Gly		
						515				520					525
Gly	Ser	Ser	Tyr	Gly	Ser	Gly	Gly	Ser	Tyr	Gly	Ser	Gly	Gly	Gly	
						530				535					540

Siemens 0022 Seq Listing.txt

Gly Gly Gly Arg Gly Ser Tyr Gly Ser Gly Gly Ser Ser Tyr Gly  
545 550 555 560  
Ser Gly Gly Ser Tyr Gly Ser Gly Gly Gly Gly His Gly  
565 570 575  
Ser Tyr Gly Ser Gly Ser Ser Gly Gly Tyr Arg Gly Gly Ser Gly  
580 585 590  
Gly Gly Gly Gly Ser Ser Gly Gly Arg Gly Ser Gly Gly Ser  
595 600 605  
Ser Gly Gly Ser Ile Gly Gly Arg Gly Ser Ser Ser Gly Gly Val Lys  
610 615 620  
Ser Ser Gly Gly Ser Ser Val Arg Phe Val Ser Thr Thr Tyr Ser  
625 630 635 640  
Gly Val Thr Arg

<210> 464

<211> 629

<212> PRT

<213> Homo sapiens

<400> 464  
Met Ser Arg Gln Ala Ser Lys Thr Ser Gly Gly Gly Ser Gln Gly Phe  
1 5 10 15  
Ser Gly Arg Ser Ala Val Val Ser Gly Ser Ser Arg Met Ser Cys Val  
20 25 30  
Ala His Ser Gly Gly Ala Gly Gly Ala Tyr Gly Phe Arg Ser Gly  
35 40 45  
Ala Gly Gly Phe Gly Ser Arg Ser Leu Tyr Asn Leu Gly Gly Asn Lys  
50 55 60  
Ser Ile Ser Ile Ser Val Ala Ala Gly Gly Ser Arg Ala Gly Gly Phe  
65 70 75 80  
Gly Gly Gly Arg Ser Ser Cys Ala Phe Ala Gly Gly Tyr Gly Gly  
85 90 95  
Phe Gly Ser Gly Tyr Gly Gly Phe Gly Gly Gly Phe Gly Gly  
100 105 110  
Arg Gly Met Gly Gly Gly Phe Gly Gly Ala Gly Gly Phe Gly Gly Ala  
115 120 125  
Gly Gly Phe Gly Gly Ala Gly Gly Phe Gly Gly Pro Gly Gly Phe Gly  
130 135 140  
Gly Ser Gly Gly Phe Gly Gly Pro Gly Ser Leu Gly Ser Pro Gly Gly  
145 150 155 160  
Phe Ala Pro Gly Gly Phe Pro Gly Gly Ile Gln Glu Val Thr Thr Asn  
165 170 175  
Gln Ser Leu Leu Gln Pro Leu Lys Val Glu Thr Asp Pro Gln Ile Gly  
180 185 190  
Gln Val Lys Ala Gln Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys  
195 200 205  
Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys  
210 215 220  
Val Leu Glu Thr Lys Trp Asn Leu Leu Gln Gln Gly Thr Ser Ser  
225 230 235 240  
Ile Ser Gly Thr Asn Asn Leu Glu Pro Leu Phe Glu Asn His Ile Asn  
245 250 255  
Tyr Leu Arg Ser Tyr Leu Asp Asn Ile Leu Gly Glu Arg Gly Arg Leu  
260 265 270  
Asp Ser Glu Leu Lys Asn Met Glu Asp Leu Val Glu Asp Phe Lys Lys  
275 280 285

Siemens 0022 Seq Listing.txt

Lys	Tyr	Glu	Asp	Glu	Ile	Asn	Lys	Arg	Thr	Ala	Ala	Glu	Asn	Glu	Phe
290				295								300			
Val	Thr	Leu	Lys	Lys	Asp	Val	Asp	Ser	Ala	Tyr	Met	Asn	Lys	Val	Glu
305				310						315				320	
Leu	Gln	Ala	Lys	Val	Asp	Ala	Leu	Ile	Asp	Glu	Ile	Asp	Phe	Leu	Arg
				325				330				335			
Thr	Leu	Tyr	Asp	Ala	Glu	Leu	Ser	Gln	Met	Gln	Ser	His	Ile	Ser	Asp
		340				345						350			
Thr	Ser	Val	Val	Leu	Ser	Met	Asp	Asn	Asn	Arg	Ser	Leu	Asp	Leu	Asp
		355				360				365					
Ser	Ile	Ile	Ala	Glu	Val	Gly	Ala	Gln	Tyr	Glu	Asp	Ile	Ala	Gln	Arg
		370			375				380						
Ser	Lys	Ala	Glu	Ala	Glu	Ala	Leu	Tyr	Gln	Thr	Lys	Leu	Gly	Glu	Leu
385				390				395				400			
Gln	Thr	Thr	Ala	Gly	Arg	His	Gly	Asp	Asp	Leu	Arg	Asn	Thr	Lys	Ser
			405				410				415				
Glu	Ile	Ile	Glu	Leu	Asn	Arg	Met	Ile	Gln	Arg	Leu	Arg	Ala	Glu	Ile
			420			425				430					
Glu	Gly	Val	Lys	Lys	Gln	Asn	Ala	Asn	Leu	Gln	Thr	Ala	Ile	Ala	Gln
		435			440				445						
Ala	Glu	Gln	His	Gly	Glu	Met	Ala	Leu	Lys	Asp	Ala	Asn	Ala	Lys	Leu
		450			455				460						
Gln	Glu	Leu	Gln	Ala	Ala	Leu	Gln	Gln	Ala	Lys	Asp	Asp	Leu	Ala	Arg
465				470				475				480			
Leu	Leu	Arg	Asp	Tyr	Gln	Glu	Leu	Met	Asn	Val	Lys	Leu	Ala	Leu	Asp
			485				490				495				
Val	Glu	Ile	Ala	Thr	Tyr	Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Tyr	Ser
		500				505					510				
Arg	Met	Ser	Gly	Glu	Cys	Pro	Ser	Ala	Val	Ser	Ile	Ser	Val	Val	Ser
		515				520					525				
Ser	Ser	Thr	Thr	Ser	Ala	Ser	Ala	Gly	Gly	Tyr	Gly	Gly	Tyr	Gly	
		530				535				540					
Gly	Gly	Met	Gly	Gly	Gly	Leu	Gly	Gly	Gly	Phe	Ser	Ala	Gly	Gly	Gly
545				550				555				560			
Ser	Gly	Ile	Gly	Phe	Gly	Arg	Gly	Gly	Gly	Gly	Ile	Gly	Gly	Gly	
		565				570				575					
Phe	Gly	Gly	Gly	Thr	Ser	Gly	Phe	Gly	Gly	Ser	Gly	Phe	Gly	Ser	
		580				585				590					
Ile	Ser	Gly	Ala	Arg	Tyr	Gly	Val	Ser	Gly	Gly	Gly	Phe	Ser	Ser	Ala
		595				600				605					
Ser	Asn	Arg	Gly	Gly	Ser	Ile	Lys	Phe	Ser	Gln	Ser	Ser	Gln	Ser	Ser
		610				615				620					
Gln	Arg	Tyr	Ser	Arg											
	625														

<210> 465

<211> 534

<212> PRT

<213> Homo sapiens

<400> 465

Met	Ile	Ala	Arg	Gln	Gln	Cys	Val	Arg	Gly	Gly	Pro	Arg	Gly	Phe	Ser
1				5				10				15			
Cys	Gly	Ser	Ala	Ile	Val	Gly	Gly	Gly	Lys	Arg	Gly	Ala	Phe	Ser	Ser
				20			25			30					
val	Ser	Met	Ser	Gly	Gly	Ala	Gly	Arg	Cys	Ser	Ser	Gly	Gly	Phe	Gly
		35				40				45					

Siemens 0022 Seq Listing.txt

Ser Arg Ser Leu Tyr Asn Leu Arg Gly Asn Lys Ser Ile Ser Met Ser  
 50 55 60  
 Val Ala Gly Ser Arg Gln Gly Ala Cys Phe Gly Gly Ala Gly Gly Phe  
 65 70 75 80  
 Gly Thr Gly Gly Phe Gly Ala Gly Gly Phe Gly Ala Gly Phe Gly Thr  
 85 90 95  
 Gly Gly Phe Gly Gly Phe Gly Gly Ser Phe Ser Gly Lys Gly Gly  
 100 105 110  
 Pro Gly Phe Pro Val Cys Pro Ala Gly Gly Ile Gln Glu Val Thr Ile  
 115 120 125  
 Asn Gln Ser Leu Leu Thr Pro Leu His Val Glu Ile Asp Pro Glu Ile  
 130 135 140  
 Gln Lys Val Arg Thr Glu Glu Arg Glu Gln Ile Lys Leu Leu Asn Asn  
 145 150 155 160  
 Lys Phe Ala Ser Phe Ile Asp Lys Val Gln Phe Leu Glu Gln Gln Asn  
 165 170 175  
 Lys Val Leu Glu Thr Lys Trp Asn Leu Leu Gln Gln Gln Thr Thr Thr  
 180 185 190  
 Thr Ser Ser Lys Asn Leu Glu Pro Leu Phe Glu Thr Tyr Leu Ser Val  
 195 200 205  
 Leu Arg Lys Gln Leu Asp Thr Leu Gly Asn Asp Lys Gly Arg Leu Gln  
 210 215 220  
 Ser Glu Leu Lys Thr Met Gln Asp Ser Val Glu Asp Phe Lys Thr Lys  
 225 230 235 240  
 Tyr Glu Glu Glu Ile Asn Lys Arg Thr Ala Ala Glu Asn Asp Phe Val  
 245 250 255  
 Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Leu Asn Lys Val Glu Leu  
 260 265 270  
 Glu Ala Lys Val Asp Ser Leu Asn Asp Glu Ile Asn Phe Leu Lys Val  
 275 280 285  
 Leu Tyr Asp Ala Glu Leu Ser Gln Met Gln Thr His Val Ser Asp Thr  
 290 295 300  
 Ser Val Val Leu Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser  
 305 310 315 320  
 Ile Ile Ala Glu Val Arg Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser  
 325 330 335  
 Lys Ala Glu Ala Glu Ala Leu Tyr Gln Thr Lys Val Gln Gln Leu Gln  
 340 345 350  
 Ile Ser Val Asp Gln His Gly Asp Asn Leu Lys Asn Thr Lys Ser Glu  
 355 360 365  
 Ile Ala Glu Leu Asn Arg Met Ile Gln Arg Leu Arg Ala Glu Ile Glu  
 370 375 380  
 Asn Ile Lys Lys Gln Cys Gln Thr Leu Gln Val Ser Val Ala Asp Ala  
 385 390 395 400  
 Glu Gln Arg Gly Glu Asn Ala Leu Lys Asp Ala His Ser Lys Arg Val  
 405 410 415  
 Glu Leu Glu Ala Ala Leu Gln Gln Ala Lys Glu Glu Leu Ala Arg Met  
 420 425 430  
 Leu Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile  
 435 440 445  
 Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Tyr Arg Met  
 450 455 460  
 Ser Gly Glu Cys Gln Ser Ala Val Ser Ile Ser Val Val Ser Gly Ser  
 465 470 475 480  
 Thr Ser Thr Gly Gly Ile Ser Gly Gly Leu Gly Ser Gly Ser Gly Phe  
 485 490 495  
 Gly Leu Ser Ser Gly Phe Gly Ser Gly Ser Gly Ser Gly Phe Gly Phe  
 500 505 510  
 Gly Gly Ser Val Ser Gly Ser Ser Ser Lys Ile Ile Ser Thr Thr  
 515 520 525  
 Thr Leu Asn Lys Arg Arg  
 530

Siemens 0022 Seq Listing.txt

<210> 466

<211> 483

<212> PRT

<213> Homo sapiens

<400> 466

Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys Val Ser Thr Ser Gly  
 1 5 10 15  
 Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro Gly Ser Arg  
 20 25 30  
 Ile Ser Ser Ser Phe Ser Arg Val Gly Ser Ser Asn Phe Arg Gly  
 35 40 45  
 Gly Leu Gly Gly Tyr Gly Ala Ser Gly Met Gly Gly Ile Thr  
 50 55 60  
 Ala Val Thr Val Asn Gln Ser Leu Leu Ser Pro Leu Val Leu Glu Val  
 65 70 75 80  
 Asp Pro Asn Ile Gln Ala Val Arg Thr Gln Glu Lys Glu Gln Ile Lys  
 85 90 95  
 Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu  
 100 105 110  
 Glu Gln Gln Asn Lys Met Leu Glu Thr Lys Trp Ser Leu Leu Gln Gln  
 115 120 125  
 Gln Lys Thr Ala Arg Ser Asn Met Asp Asn Met Phe Glu Ser Tyr Ile  
 130 135 140  
 Asn Asn Leu Arg Arg Gln Leu Glu Thr Leu Gly Gln Glu Lys Leu Lys  
 145 150 155 160  
 Leu Glu Ala Glu Leu Gly Asn Met Gln Gly Leu Val Glu Asp Phe Lys  
 165 170 175  
 Asn Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Glu Met Glu Asn Glu  
 180 185 190  
 Phe Val Leu Ile Lys Lys Asp Val Asp Glu Ala Tyr Met Asn Lys Val  
 195 200 205  
 Glu Leu Glu Ser Arg Leu Glu Gly Leu Thr Asp Glu Ile Asn Phe Leu  
 210 215 220  
 Arg Gln Leu Tyr Glu Glu Glu Ile Arg Glu Leu Gln Ser Gln Ile Ser  
 225 230 235 240  
 Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Met  
 245 250 255  
 Asp Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Asp Ile Ala Asn  
 260 265 270  
 Arg Ser Arg Ala Glu Ala Glu Ser Met Tyr Gln Ile Lys Tyr Glu Glu  
 275 280 285  
 Leu Gln Ser Leu Ala Gly Lys His Gly Asp Asp Leu Arg Arg Thr Lys  
 290 295 300  
 Thr Glu Ile Ser Glu Met Asn Arg Asn Ile Ser Arg Leu Gln Ala Glu  
 305 310 315 320  
 Ile Glu Gly Leu Lys Gly Gln Arg Ala Ser Leu Glu Ala Ala Ile Ala  
 325 330 335  
 Asp Ala Glu Gln Arg Gly Glu Leu Ala Ile Lys Asp Ala Asn Ala Lys  
 340 345 350  
 Leu Ser Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala  
 355 360 365  
 Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Asn Val Lys Leu Ala Leu  
 370 375 380  
 Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser  
 385 390 395 400  
 Arg Leu Glu Ser Gly Met Gln Asn Met Ser Ile His Thr Lys Thr Thr

## Siemens 0022 Seq Listing.txt

	405	410	415												
Ser	Gly	Tyr	Ala	Gly	Gly	Leu	Ser	Ser	Ala	Tyr	Gly	Gly	Leu	Thr	Ser
			420		425									430	
Pro	Gly	Leu	Ser	Tyr	Ser	Leu	Gly	Ser	Ser	Phe	Gly	Ser	Gly	Ala	Gly
			435		440									445	
Ser	Ser	Ser	Phe	Ser	Arg	Thr	Ser	Ser	Ser	Arg	Ala	Val	Val	Val	Lys
			450		455							460			
Lys	Ile	Glu	Thr	Arg	Asp	Gly	Lys	Leu	Val	Ser	Glu	Ser	Ser	Asp	Val
			465		470						475				480
Leu	Pro	Lys													

&lt;210&gt; 467

&lt;211&gt; 430

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

Met	Ser	Phe	Thr	Thr	Arg	Ser	Thr	Phe	Ser	Thr	Asn	Tyr	Arg	Ser	Leu	
1					5				10				15			
Gly	Ser	Val	Gln	Ala	Pro	Ser	Tyr	Gly	Ala	Arg	Pro	Val	Ser	Ser	Ala	
									20		25			30		
Ala	Ser	Val	Tyr	Ala	Gly	Ala	Gly	Gly	Ser	Gly	Ser	Arg	Ile	Ser	Val	
									35		40			45		
Ser	Arg	Ser	Thr	Ser	Phe	Arg	Gly	Gly	Met	Gly	Ser	Gly	Gly	Leu	Ala	
									50		55			60		
Thr	Gly	Ile	Ala	Gly	Gly	Leu	Ala	Gly	Met	Gly	Gly	Ile	Gln	Asn	Glu	
									65		70			75		80
Lys	Glu	Thr	Met	Gln	Ser	Leu	Asn	Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Asp	
									85		90			95		
Arg	Val	Arg	Ser	Leu	Glu	Thr	Glu	Asn	Arg	Arg	Leu	Glu	Ser	Lys	Ile	
									100		105			110		
Arg	Glu	His	Leu	Glu	Lys	Lys	Gly	Pro	Gln	Val	Arg	Asp	Trp	Ser	His	
									115		120			125		
Tyr	Phe	Lys	Ile	Ile	Glu	Asp	Leu	Arg	Ala	Gln	Ile	Phe	Ala	Asn	Thr	
									130		135			140		
Val	Asp	Asn	Ala	Arg	Ile	Val	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala	
									145		150			155		160
Ala	Asp	Asp	Phe	Arg	Val	Lys	Tyr	Glu	Thr	Glu	Leu	Ala	Met	Arg	Gln	
									165		170			175		
Ser	Val	Glu	Asn	Asp	Ile	His	Gly	Leu	Arg	Lys	Val	Ile	Asp	Asp	Thr	
									180		185			190		
Asn	Ile	Thr	Arg	Leu	Gln	Leu	Glu	Thr	Glu	Ile	Glu	Ala	Leu	Lys	Glu	
									195		200			205		
Glu	Leu	Leu	Phe	Met	Lys	Lys	Asn	His	Glu	Glu	Glu	Val	Lys	Gly	Leu	
									210		215			220		
Gln	Ala	Gln	Ile	Ala	Ser	Ser	Gly	Leu	Thr	Val	Glu	Val	Asp	Ala	Pro	
									225		230			235		240
Lys	Ser	Gln	Asp	Leu	Ala	Lys	Ile	Met	Ala	Asp	Ile	Arg	Ala	Gln	Tyr	
									245		250			255		
Asp	Glu	Leu	Ala	Arg	Lys	Asn	Arg	Glu	Glu	Leu	Asp	Lys	Tyr	Trp	Ser	
									260		265			270		
Gln	Gln	Ile	Glu	Glu	Ser	Thr	Thr	Val	Val	Thr	Thr	Gln	Ser	Ala	Glu	
									275		280			285		
Val	Gly	Ala	Ala	Glu	Thr	Thr	Leu	Thr	Glu	Leu	Arg	Arg	Thr	Val	Gln	
									290		295			300		
Ser	Leu	Glu	Ile	Asp	Leu	Asp	Ser	Met	Arg	Asn	Leu	Lys	Ala	Ser	Leu	

## Siemens 0022 Seq Listing.txt

305	310	315	320												
Glu	Asn	Ser	Leu	Arg	Glu	Val	Glu	Ala	Arg	Tyr	Ala	Leu	Gln	Met	Glu
325					330									335	
Gln	Leu	Asn	Gly	Ile	Leu	Leu	His	Leu	Glu	Ser	Glu	Leu	Ala	Gln	Thr
340					345									350	
Arg	Ala	Glu	Gly	Gln	Arg	Gln	Ala	Gln	Glu	Tyr	Glu	Ala	Leu	Leu	Asn
355					360									365	
Ile	Lys	Val	Lys	Leu	Glu	Ala	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu
370					375									380	
Glu	Asp	Gly	Glu	Asp	Phe	Asn	Leu	Gly	Asp	Ala	Leu	Asp	Ser	Ser	Asn
385					390									395	
Ser	Met	Gln	Thr	Ile	Gln	Lys	Thr	Thr	Arg	Arg	Ile	Val	Asp	Gly	
405					410									415	
Lys	Val	Val	Ser	Glu	Thr	Asn	Asp	Thr	Lys	Val	Leu	Arg	His		
420					425									430	

&lt;210&gt; 468

&lt;211&gt; 392

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

Met	Val	Ala	Arg	Val	Gly	Leu	Leu	Leu	Arg	Ala	Leu	Gln	Leu	Leu	Leu
1						5			10				15		
Trp	Gly	His	Leu	Asp	Ala	Gln	Pro	Ala	Glu	Arg	Gly	Gly	Gln	Glu	Leu
							20		25				30		
Arg	Lys	Glu	Ala	Glu	Ala	Phe	Leu	Glu	Lys	Tyr	Gly	Tyr	Leu	Asn	Glu
							35		40				45		
Gln	Val	Pro	Lys	Ala	Pro	Thr	Ser	Thr	Arg	Phe	Ser	Asp	Ala	Ile	Arg
							50		55				60		
Ala	Phe	Gln	Trp	Val	Ser	Gln	Leu	Pro	Val	Ser	Gly	Val	Leu	Asp	Arg
65							70			75				80	
Ala	Thr	Leu	Arg	Gln	Met	Thr	Arg	Pro	Arg	Cys	Gly	Val	Thr	Asp	Thr
							85		90				95		
Asn	Ser	Tyr	Ala	Ala	Trp	Ala	Glu	Arg	Ile	Ser	Asp	Leu	Phe	Ala	Arg
							100		105				110		
His	Arg	Thr	Lys	Met	Arg	Arg	Lys	Lys	Arg	Phe	Ala	Lys	Gln	Gly	Asn
							115		120				125		
Lys	Trp	Tyr	Lys	Gln	His	Leu	Ser	Tyr	Arg	Leu	Val	Asn	Trp	Pro	Glu
							130		135				140		
His	Leu	Pro	Glu	Pro	Ala	Val	Arg	Gly	Ala	Val	Arg	Ala	Ala	Phe	Gln
145							150			155				160	
Leu	Trp	Ser	Asn	Val	Ser	Ala	Leu	Glu	Phe	Trp	Glu	Ala	Pro	Ala	Thr
							165		170				175		
Gly	Pro	Ala	Asp	Ile	Arg	Leu	Thr	Phe	Phe	Gln	Gly	Asp	His	Asn	Asp
							180		185				190		
Gly	Leu	Gly	Asn	Ala	Phe	Asp	Gly	Pro	Gly	Gly	Ala	Leu	Ala	His	Ala
							195		200				205		
Phe	Leu	Pro	Arg	Arg	Gly	Glu	Ala	His	Phe	Asp	Gln	Asp	Glu	Arg	Trp
							210		215				220		
Ser	Leu	Ser	Arg	Arg	Gly	Arg	Asn	Leu	Phe	Val	Val	Leu	Ala	His	
225							225		230				235		240
Glu	Ile	Gly	His	Thr	Leu	Gly	Leu	Thr	His	Ser	Pro	Ala	Pro	Arg	Ala
							245		250				255		
Leu	Met	Ala	Pro	Tyr	Tyr	Lys	Arg	Leu	Gly	Arg	Asp	Ala	Leu	Leu	Ser
							260		265				270		
Trp	Asp	Asp	Val	Leu	Ala	Val	Gln	Ser	Leu	Tyr	Gly	Lys	Pro	Leu	Gly

## Siemens 0022 Seq Listing.txt

275																
Gly	Ser	Val	Ala	Val	Gln	Leu	Pro	Gly	Lys	Leu	Phe	Thr	Asp	Phe	Glu	
290			295			300										
Thr	Trp	Asp	Ser	Tyr	Ser	Pro	Gln	Gly	Arg	Arg	Pro	Glu	Thr	Gln	Gly	
305			310			315			320							
Pro	Lys	Tyr	Cys	His	Ser	Ser	Phe	Asp	Ala	Ile	Thr	Val	Asp	Arg	Gln	
															335	
Gln	Gln	Leu	Tyr	Ile	Phe	Lys	Gly	Ser	His	Phe	Trp	Glu	Val	Ala	Ala	
															350	
340			345													
Asp	Gly	Asn	Val	Ser	Glu	Pro	Arg	Pro	Leu	Gln	Glu	Arg	Trp	Val	Gly	
															365	
355			360			365										
Leu	Pro	Pro	Asn	Ile	Glu	Ala	Ala	Ala	Ala	val	Ser	Leu	Asn	Asp	Gly	Asp
															380	
Phe	Tyr	Phe	Phe	Lys	Val	Gln	Ser									
385			390													

&lt;210&gt; 469

&lt;211&gt; 851

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

Met	Ala	Gln	Trp	Glu	Met	Leu	Gln	Asn	Leu	Asp	Ser	Pro	Phe	Gln	Asp
1					5				10					15	
Gln	Leu	His	Gln	Leu	Tyr	Ser	His	Ser	Leu	Leu	Pro	Val	Asp	Ile	Arg
					20				25					30	
Gln	Tyr	Leu	Ala	Val	Trp	Ile	Glu	Asp	Gln	Asn	Trp	Gln	Glu	Ala	Ala
					35				40					45	
Leu	Gly	Ser	Asp	Asp	Ser	Lys	Ala	Thr	Met	Leu	Phe	Phe	His	Phe	Leu
					50				55					60	
Asp	Gln	Leu	Asn	Tyr	Glu	Cys	Gly	Arg	Cys	Ser	Gln	Asp	Pro	Glu	Ser
					65				70					75	80
Leu	Leu	Leu	Gln	His	Asn	Leu	Arg	Lys	Phe	Cys	Arg	Asp	Ile	Gln	Pro
					85				90					95	
Phe	Ser	Gln	Asp	Pro	Thr	Gln	Leu	Ala	Glu	Met	Ile	Phe	Asn	Leu	Leu
					100				105					110	
Leu	Glu	Glu	Lys	Arg	Ile	Leu	Ile	Gln	Ala	Gln	Arg	Ala	Gln	Leu	Glu
					115				120					125	
Gln	Gly	Glu	Pro	Val	Leu	Glu	Thr	Pro	Val	Glu	Ser	Gln	Gln	His	Glu
					130				135					140	
Ile	Glu	Ser	Arg	Ile	Leu	Asp	Leu	Arg	Ala	Met	Met	Glu	Lys	Leu	Val
					145				150					155	160
Lys	Ser	Ile	Ser	Gln	Leu	Lys	Asp	Gln	Gln	Asp	Val	Phe	Cys	Phe	Arg
					165				170					175	
Tyr	Lys	Ile	Gln	Ala	Lys	Gly	Lys	Thr	Pro	Ser	Leu	Asp	Pro	His	Gln
					180				185					190	
Thr	Lys	Glu	Gln	Lys	Ile	Leu	Gln	Glu	Thr	Leu	Asn	Glu	Leu	Asp	Lys
					195				200					205	
Arg	Arg	Lys	Glu	Val	Leu	Asp	Ala	Ser	Lys	Ala	Leu	Leu	Gly	Arg	Leu
					210				215					220	
Thr	Thr	Leu	Ile	Glu	Leu	Leu	Leu	Pro	Lys	Leu	Glu	Glu	Trp	Lys	Ala
					225				230					235	240
Gln	Gln	Gln	Lys	Ala	Cys	Ile	Arg	Ala	Pro	Ile	Asp	His	Gly	Leu	Glu
					245				250					255	
Gln	Leu	Glu	Thr	Trp	Phe	Thr	Ala	Gly	Ala	Lys	Leu	Leu	Phe	His	Leu
					260				265					270	
Arg	Gln	Leu	Leu	Lys	Glu	Leu	Lys	Gly	Leu	Ser	Cys	Leu	Val	Ser	Tyr

## Siemens 0022 Seq Listing.txt

	275															
Gln	Asp	Asp	Pro	Leu	Thr	Lys	Gly	Val	Asp	Leu	Arg	Asn	Ala	Gln	Val	
290						295					300					
Thr	Glu	Leu	Leu	Gln	Arg	Leu	Leu	His	Arg	Ala	Phe	Val	Val	Glu	Thr	
305						310					315					320
Gln	Pro	Cys	Met	Pro	Gln	Thr	Pro	His	Arg	Pro	Leu	Ile	Leu	Lys	Thr	
						325					330					335
Gly	Ser	Lys	Phe	Thr	Val	Arg	Thr	Arg	Leu	Leu	Val	Arg	Leu	Gln	Glu	
						340					345					350
Gly	Asn	Glu	Ser	Leu	Thr	Val	Glu	Val	Ser	Ile	Asp	Arg	Asn	Pro	Pro	
						355					360					365
Gln	Leu	Gln	Gly	Phe	Arg	Lys	Phe	Asn	Ile	Leu	Thr	Ser	Asn	Gln	Lys	
						370					375					380
Thr	Leu	Thr	Pro	Glu	Lys	Gly	Gln	Ser	Gln	Gly	Leu	Ile	Trp	Asp	Phe	
385						390					395					400
Gly	Tyr	Leu	Thr	Leu	Val	Glu	Gln	Arg	Ser	Gly	Gly	Ser	Gly	Lys	Gly	
						405					410					415
Ser	Asn	Lys	Gly	Pro	Leu	Gly	Val	Thr	Glu	Glu	Leu	His	Ile	Ile	Ser	
						420					425					430
Phe	Thr	Val	Lys	Tyr	Thr	Tyr	Gln	Gly	Leu	Lys	Gln	Glu	Leu	Lys	Thr	
						435					440					445
Asp	Thr	Leu	Pro	Val	Val	Ile	Ile	Ser	Asn	Met	Asn	Gln	Leu	Ser	Ile	
						450					455					460
Ala	Trp	Ala	Ser	Val	Leu	Trp	Phe	Asn	Leu	Leu	Ser	Pro	Asn	Leu	Gln	
						465					470					480
Asn	Gln	Gln	Phe	Phe	Ser	Asn	Pro	Pro	Lys	Ala	Pro	Trp	Ser	Leu	Leu	
						485					490					495
Gly	Pro	Ala	Leu	Ser	Trp	Gln	Phe	Ser	Ser	Tyr	Val	Gly	Arg	Gly	Leu	
						500					505					510
Asn	Ser	Asp	Gln	Leu	Ser	Met	Leu	Arg	Asn	Lys	Leu	Phe	Gly	Gln	Asn	
						515					520					525
Cys	Arg	Thr	Glu	Asp	Pro	Leu	Leu	Ser	Trp	Ala	Asp	Phe	Thr	Lys	Arg	
						530					535					540
Glu	Ser	Pro	Pro	Gly	Lys	Leu	Pro	Phe	Trp	Thr	Trp	Leu	Asp	Lys	Ile	
						545					550					560
Leu	Glu	Leu	Val	His	Asp	His	Leu	Lys	Asp	Leu	Trp	Asn	Asp	Gly	Arg	
						565					570					575
Ile	Met	Gly	Phe	Val	Ser	Arg	Ser	Gln	Glu	Arg	Arg	Leu	Leu	Lys	Lys	
						580					585					590
Thr	Met	Ser	Gly	Thr	Phe	Leu	Leu	Arg	Phe	Ser	Glu	Ser	Ser	Glu	Gly	
						595					600					605
Gly	Ile	Thr	Cys	Ser	Trp	Val	Glu	His	Gln	Asp	Asp	Asp	Lys	Val	Leu	
						610					615					620
Ile	Tyr	Ser	Val	Gln	Pro	Tyr	Thr	Lys	Glu	Val	Leu	Gln	Ser	Leu	Pro	
						625					630					640
Leu	Thr	Glu	Ile	Ile	Arg	His	Tyr	Gln	Leu	Leu	Thr	Glu	Glu	Asn	Ile	
						645					650					655
Pro	Glu	Asn	Pro	Leu	Arg	Phe	Leu	Tyr	Pro	Arg	Ile	Pro	Arg	Asp	Glu	
						660					665					670
Ala	Phe	Gly	Cys	Tyr	Tyr	Gln	Glu	Lys	Val	Asn	Leu	Gln	Glu	Arg	Arg	
						675					680					685
Lys	Tyr	Leu	Lys	His	Arg	Leu	Ile	Val	Val	Ser	Asn	Arg	Gln	Val	Asp	
						690					695					700
Glu	Leu	Gln	Gln	Pro	Leu	Glu	Leu	Lys	Pro	Glu	Pro	Glu	Leu	Glu	Ser	
						705					710					720
Leu	Glu	Leu	Glu	Leu	Gly	Leu	Val	Pro	Glu	Pro	Glu	Leu	Ser	Leu	Asp	
						725					730					735
Leu	Glu	Pro	Leu	Leu	Lys	Ala	Gly	Leu	Asp	Leu	Gly	Pro	Glu	Leu	Glu	
						740					745					750
Ser	Val	Leu	Glu	Ser	Thr	Leu	Glu	Pro	Val	Ile	Glu	Pro	Thr	Leu	Cys	
						755					760					765
Met	Val	Ser	Gln	Thr	Val	Pro	Glu	Pro	Asp	Gln	Gly	Pro	Val	Ser	Gln	
						770					775					780

Siemens 0022 Seq Listing.txt

Pro Val Pro Glu Pro Asp Leu Pro Cys Asp Leu Arg His Leu Asn Thr  
785 790 795 800  
Glu Pro Met Glu Ile Phe Arg Asn Cys Val Lys Ile Glu Glu Ile Met  
805 810 815  
Pro Asn Gly Asp Pro Leu Leu Ala Gly Gln Asn Thr Val Asp Glu Val  
820 825 830  
Tyr Val Ser Arg Pro Ser His Phe Tyr Thr Asp Gly Pro Leu Met Pro  
835 840 845  
Ser Asp Phe  
850

<210> 470

<211> 335

<212> PRT

<213> Homo sapiens

<400> 470  
Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg  
1 5 10 15  
Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile Val Ala  
20 25 30  
Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe Gln  
35 40 45  
Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Lys Ala Glu Asn  
50 55 60  
Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg  
65 70 75 80  
Asp Pro Ser Lys Ile Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val  
85 90 95  
Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu  
100 105 110  
Gln Gly Ala Lys Arg Val Ile Ile Ser Ala Pro Ser Ala Asp Ala  
115 120 125  
Pro Met Phe Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu  
130 135 140  
Lys Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu  
145 150 155 160  
Ala Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr  
165 170 175  
Thr Val His Ala Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser  
180 185 190  
Gly Lys Leu Trp Arg Asp Gly Arg Gly Ala Leu Gln Asn Ile Ile Pro  
195 200 205  
Ala Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Ile Pro Glu Leu  
210 215 220  
Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Ala Asn Val  
225 230 235 240  
Ser Val Val Asp Leu Thr Cys Arg Leu Glu Lys Pro Ala Lys Tyr Asp  
245 250 255  
Asp Ile Lys Lys Val Val Lys Gln Ala Ser Glu Gly Pro Leu Lys Gly  
260 265 270  
Ile Leu Gly Tyr Thr Glu His Gln Val Val Ser Ser Asp Phe Asn Ser  
275 280 285  
Asp Thr His Ser Ser Thr Phe Asp Ala Gly Ala Gly Ile Ala Leu Asn  
290 295 300  
Asp His Phe Val Lys Leu Ile Ser Trp Tyr Asp Asn Glu Phe Gly Tyr  
305 310 315 320

Siemens 0022 Seq Listing.txt  
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Siemens 0022 Seq Listing.txt

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